

SBML Model Report

Model name: “Lai2014 - Hemiconcerted MWC model of intact calmodulin with two targets”



May 5, 2016

1 General Overview

This is a document in SBML Level 2 Version 4 format. This model was created by the following two authors: Vijayalakshmi Chelliah¹ and Massimo Lai² at April tenth 2015 at 2:37 p.m. and last time modified at April tenth 2015 at 5:41 p.m. Table 1 shows an overview of the quantities of all components of this model.

Table 1: Number of components in this model, which are described in the following sections.

Element	Quantity	Element	Quantity
compartment types	0	compartments	1
species types	0	species	195
events	0	constraints	0
reactions	576	function definitions	0
global parameters	80	unit definitions	0
rules	53	initial assignments	0

Model Notes

Lai2014 - Hemiconcerted MWC model of intactcalmodulin with two targets

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This model is described in the article:[Modulation of calmodulin lobes by different targets: an allosteric model with hemicconcerted conformational transitions](#). Lai M, Brun D, Edelstein SJ, Le Novre N. PLoS Comput. Biol. 2015 Jan; 11(1): e1004063

Abstract:

Calmodulin is a calcium-binding protein ubiquitous in eukaryotic cells, involved in numerous calcium-regulated biological phenomena, such as synaptic plasticity, muscle contraction, cell cycle, and circadian rhythms. It exhibits a characteristic dumbbell shape, with two globular domains (N- and C-terminal lobe) joined by a linker region. Each lobe can take alternative conformations, affected by the binding of calcium and target proteins. Calmodulin displays considerable functional flexibility due to its capability to bind different targets, often in a tissue-specific fashion. In various specific physiological environments (e.g. skeletal muscle, neuron dendritic spines) several targets compete for the same calmodulin pool, regulating its availability and affinity for calcium. In this work, we sought to understand the general principles underlying calmodulin modulation by different target proteins, and to account for simultaneous effects of multiple competing targets, thus enabling a more realistic simulation of calmodulin-dependent pathways. We built a mechanistic allosteric model of calmodulin, based on an hemicconcerted framework: each calmodulin lobe can exist in two conformations in thermodynamic equilibrium, with different affinities for calcium and different affinities for each target. Each lobe was allowed to switch conformation on its own. The model was parameterised and validated against experimental data from the literature. In spite of its simplicity, a two-state allosteric model was able to satisfactorily represent several sets of experiments, in particular the binding of calcium on intact and truncated calmodulin and the effect of different skMLCK peptides on calmodulin's saturation curve. The model can also be readily extended to include multiple targets. We show that some targets stabilise the low calcium affinity T state while others stabilise the high affinity R state. Most of the effects produced by calmodulin targets can be explained as modulation of a pre-existing dynamic equilibrium between different conformations of calmodulin's lobes, in agreement with linkage theory and MWC-type models.

This model is hosted on [BioModels Database](#) and identified by: [BIOMD0000000574](#).

To cite BioModels Database, please use: [BioModels Database: An enhanced, curated and annotated resource for published quantitative kinetic models](#).

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2 Unit Definitions

This is an overview of five unit definitions which are all predefined by SBML and not mentioned in the model.

2.1 Unit substance

Notes Mole is the predefined SBML unit for substance.

Definition mol

2.2 Unit volume

Notes Litre is the predefined SBML unit for volume.

Definition 1

2.3 Unit area

Notes Square metre is the predefined SBML unit for area since SBML Level 2 Version 1.

Definition m^2

2.4 Unit length

Notes Metre is the predefined SBML unit for length since SBML Level 2 Version 1.

Definition m

2.5 Unit time

Notes Second is the predefined SBML unit for time.

Definition s

3 Compartment

This model contains one compartment.

Table 2: Properties of all compartments.

Id	Name	SBO	Spatial	Size	Unit	Constant	Outside
			Dimensions				
cytosol	cytosol		3	1	litre	<input checked="" type="checkbox"/>	

3.1 Compartment cytosol

This is a three dimensional compartment with a constant size of one litre.

Name cytosol

4 Species

This model contains 195 species. The boundary condition of one of these species is set to true so that this species' amount cannot be changed by any reaction. Section 8 provides further details and the derived rates of change of each species.

Table 3: Properties of each species.

Id	Name	Compartment	Derived Unit	Constant	Boundary Condition
cam_RR_0_0	cam_RR_0_0	cytosol	mol · l ⁻¹	□	□
cam_RR_0_rbp	cam_RR_0_rbp	cytosol	mol · l ⁻¹	□	□
cam_RR_0_tbp	cam_RR_0_tbp	cytosol	mol · l ⁻¹	□	□
cam_RR_A_0	cam_RR_A_0	cytosol	mol · l ⁻¹	□	□
cam_RR_A_rbp	cam_RR_A_rbp	cytosol	mol · l ⁻¹	□	□
cam_RR_A_tbp	cam_RR_A_tbp	cytosol	mol · l ⁻¹	□	□
cam_RR_B_0	cam_RR_B_0	cytosol	mol · l ⁻¹	□	□
cam_RR_B_rbp	cam_RR_B_rbp	cytosol	mol · l ⁻¹	□	□
cam_RR_B_tbp	cam_RR_B_tbp	cytosol	mol · l ⁻¹	□	□
cam_RR_C_0	cam_RR_C_0	cytosol	mol · l ⁻¹	□	□
cam_RR_C_rbp	cam_RR_C_rbp	cytosol	mol · l ⁻¹	□	□
cam_RR_C_tbp	cam_RR_C_tbp	cytosol	mol · l ⁻¹	□	□
cam_RR_D_0	cam_RR_D_0	cytosol	mol · l ⁻¹	□	□
cam_RR_D_rbp	cam_RR_D_rbp	cytosol	mol · l ⁻¹	□	□
cam_RR_D_tbp	cam_RR_D_tbp	cytosol	mol · l ⁻¹	□	□
cam_RR_AB_0	cam_RR_AB_0	cytosol	mol · l ⁻¹	□	□
cam_RR_AB_rbp	cam_RR_AB_rbp	cytosol	mol · l ⁻¹	□	□
cam_RR_AB_tbp	cam_RR_AB_tbp	cytosol	mol · l ⁻¹	□	□
cam_RR_AC_0	cam_RR_AC_0	cytosol	mol · l ⁻¹	□	□
cam_RR_AC_rbp	cam_RR_AC_rbp	cytosol	mol · l ⁻¹	□	□
cam_RR_AC_tbp	cam_RR_AC_tbp	cytosol	mol · l ⁻¹	□	□

Id	Name	Compartment	Derived Unit	Constant	Boundary Condition
cam_RR_AD_0	cam_RR_AD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_AD_rbp	cam_RR_AD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_AD_tbp	cam_RR_AD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BC_0	cam_RR_BC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BC_rbp	cam_RR_BC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BC_tbp	cam_RR_BC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BD_0	cam_RR_BD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BD_rbp	cam_RR_BD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BD_tbp	cam_RR_BD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_CD_0	cam_RR_CD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_CD_rbp	cam_RR_CD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_CD_tbp	cam_RR_CD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABC_0	cam_RR_ABC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABC_rbp	cam_RR_ABC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABC_tbp	cam_RR_ABC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABD_0	cam_RR_ABD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABD_rbp	cam_RR_ABD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABD_tbp	cam_RR_ABD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ACD_0	cam_RR_ACD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ACD_rbp	cam_RR_ACD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ACD_tbp	cam_RR_ACD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BCD_0	cam_RR_BCD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BCD_rbp	cam_RR_BCD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_BCD_tbp	cam_RR_BCD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABCD_0	cam_RR_ABCD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>

Id	Name	Compartment	Derived Unit	Constant	Boundary Condition
cam_RT_0_0	cam_RT_0_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_0_rbp	cam_RT_0_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_0_tbp	cam_RT_0_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_A_0	cam_RT_A_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_A_rbp	cam_RT_A_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_A_tbp	cam_RT_A_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_B_0	cam_RT_B_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_B_rbp	cam_RT_B_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_B_tbp	cam_RT_B_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_C_0	cam_RT_C_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_C_rbp	cam_RT_C_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_C_tbp	cam_RT_C_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_D_0	cam_RT_D_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_D_rbp	cam_RT_D_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_D_tbp	cam_RT_D_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AB_0	cam_RT_AB_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AB_rbp	cam_RT_AB_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AB_tbp	cam_RT_AB_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AC_0	cam_RT_AC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AC_rbp	cam_RT_AC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AC_tbp	cam_RT_AC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AD_0	cam_RT_AD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AD_rbp	cam_RT_AD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_AD_tbp	cam_RT_AD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_BC_0	cam_RT_BC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_BC_rbp	cam_RT_BC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_BC_tbp	cam_RT_BC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>

Id	Name	Compartment	Derived Unit	Constant	Boundary Condition
cam_RT_BD_0	cam_RT_BD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_BD_rbp	cam_RT_BD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_BD_tbp	cam_RT_BD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_CD_0	cam_RT_CD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_CD_rbp	cam_RT_CD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_CD_tbp	cam_RT_CD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABC_0	cam_RT_ABC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABC_rbp	cam_RT_ABC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABC_tbp	cam_RT_ABC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABD_0	cam_RT_ABD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABD_rbp	cam_RT_ABD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABD_tbp	cam_RT_ABD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ACD_0	cam_RT_ACD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ACD_rbp	cam_RT_ACD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ACD_tbp	cam_RT_ACD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_BCD_0	cam_RT_BCD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_BCD_rbp	cam_RT_BCD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_BCD_tbp	cam_RT_BCD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABCD_0	cam_RT_ABCD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_0_0	cam_TR_0_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_0_rbp	cam_TR_0_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_0_tbp	cam_TR_0_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_A_0	cam_TR_A_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_A_rbp	cam_TR_A_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_A_tbp	cam_TR_A_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>

Id	Name	Compartment	Derived Unit	Constant	Boundary Condition
cam_TR_B_0	cam.TR.B_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_B_rbp	cam.TR.B_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_B_tbp	cam.TR.B_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_C_0	cam.TR.C_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_C_rbp	cam.TR.C_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_C_tbp	cam.TR.C_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_D_0	cam.TR.D_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_D_rbp	cam.TR.D_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_D_tbp	cam.TR.D_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AB_0	cam.TR.AB_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AB_rbp	cam.TR.AB_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AB_tbp	cam.TR.AB_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AC_0	cam.TR.AC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AC_rbp	cam.TR.AC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AC_tbp	cam.TR.AC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AD_0	cam.TR.AD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AD_rbp	cam.TR.AD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_AD_tbp	cam.TR.AD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BC_0	cam.TR.BC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BC_rbp	cam.TR.BC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BC_tbp	cam.TR.BC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BD_0	cam.TR.BD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BD_rbp	cam.TR.BD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BD_tbp	cam.TR.BD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_CD_0	cam.TR.CD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_CD_rbp	cam.TR.CD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_CD_tbp	cam.TR.CD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>

Id	Name	Compartment	Derived Unit	Constant	Boundary Condition
cam_TR_ABC_0	cam.TR_ABC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ABC_rbp	cam.TR_ABC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ABC_tbp	cam.TR_ABC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ABD_0	cam.TR_ABD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ABD_rbp	cam.TR_ABD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ABD_tbp	cam.TR_ABD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ACD_0	cam.TR_ACD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ACD_rbp	cam.TR_ACD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ACD_tbp	cam.TR_ACD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BCD_0	cam.TR_BCD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BCD_rbp	cam.TR_BCD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_BCD_tbp	cam.TR_BCD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ABCD_0	cam.TR_ABCD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ABCD_rbp	cam.TR_ABCD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TR_ABCD_tbp	cam.TR_ABCD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_0_0	cam.TT_0_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_0_rbp	cam.TT_0_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_0_tbp	cam.TT_0_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_A_0	cam.TT_A_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_A_rbp	cam.TT_A_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_A_tbp	cam.TT_A_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_B_0	cam.TT_B_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_B_rbp	cam.TT_B_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_B_tbp	cam.TT_B_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_C_0	cam.TT_C_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_C_rbp	cam.TT_C_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_C_tbp	cam.TT_C_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>

	Id	Name	Compartment	Derived Unit	Constant	Boundary Condition
	cam_TT_D_0	cam_TT_D_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_D_rbp	cam_TT_D_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_D_tbp	cam_TT_D_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AB_0	cam_TT_AB_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AB_rbp	cam_TT_AB_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AB_tbp	cam_TT_AB_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AC_0	cam_TT_AC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AC_rbp	cam_TT_AC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AC_tbp	cam_TT_AC_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AD_0	cam_TT_AD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AD_rbp	cam_TT_AD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_AD_tbp	cam_TT_AD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_BC_0	cam_TT_BC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_BC_rbp	cam_TT_BC_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_BC_tbp	cam.TT_BC.tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_BD_0	cam_TT_BD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_BD_rbp	cam.TT_BD.rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_BD_tbp	cam.TT_BD.tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_CD_0	cam_TT_CD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_CD_rbp	cam.TT_CD.rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_CD_tbp	cam.TT_CD.tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_ABC_0	cam.TT_ABC_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_ABC_rbp	cam.TT_ABC.rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_ABC_tbp	cam.TT_ABC.tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_ABD_0	cam.TT_ABD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_ABD_rbp	cam.TT_ABD.rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
	cam_TT_ABD_tbp	cam.TT_ABD.tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>

Id	Name	Compartment	Derived Unit	Constant	Boundary Condition
cam_TT_ACD_0	cam_TT_ACD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_ACD_rbp	cam_TT_ACD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_ACD_tbp	cam_TT_ACD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_BCD_0	cam_TT_BCD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_BCD_rbp	cam_TT_BCD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_BCD_tbp	cam_TT_BCD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_ABCD_0	cam_TT_ABCD_0	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
ca	ca	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
rbp	rbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>
tbp	tbp	cytosol	$\text{mol} \cdot \text{l}^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>

5 Parameters

This model contains 80 global parameters.

Table 4: Properties of each parameter.

Id	Name	SBO	Value	Unit	Constant
lC	lC		8616.610		<input checked="" type="checkbox"/>
lN	lN		322686.000		<input checked="" type="checkbox"/>
Kd_rbp_TT	Kd_rbp_TT		$6 \cdot 10^{-4}$		<input checked="" type="checkbox"/>
kon_tbp	kon_tbp		10^8		<input checked="" type="checkbox"/>
Kd_rbp_RT	Kd_rbp_RT		$6 \cdot 10^{-4}$		<input checked="" type="checkbox"/>
kon_AT	kon_AT		10^9		<input checked="" type="checkbox"/>
kon_AR	kon_AR		10^9		<input checked="" type="checkbox"/>
kon_CR	kon_CR		10^7		<input checked="" type="checkbox"/>
cN	cN		$2.15 \cdot 10^{-4}$		<input checked="" type="checkbox"/>
k_R2T_C	k_R2T_C		10000.000		<input checked="" type="checkbox"/>
cC	cC		$3.17 \cdot 10^{-4}$		<input checked="" type="checkbox"/>
kon_CT	kon_CT		10^7		<input checked="" type="checkbox"/>
k_R2T_N	k_R2T_N		10000.000		<input checked="" type="checkbox"/>
Kd_tbp_RT	Kd_tbp_RT		1.000		<input checked="" type="checkbox"/>
KDT	KDT		$6.242 \cdot 10^{-5}$		<input checked="" type="checkbox"/>
conc_rbp	conc_rbp		10^{-6}		<input checked="" type="checkbox"/>
KBT	KBT		$9.192 \cdot 10^{-5}$		<input checked="" type="checkbox"/>
Kd_rbp_RR	Kd_rbp_RR		$5 \cdot 10^{-11}$		<input checked="" type="checkbox"/>
Kd_rbp_TR	Kd_rbp_TR		$7 \cdot 10^{-8}$		<input checked="" type="checkbox"/>
Kd_tbp_TT	Kd_tbp_TT		1.000		<input checked="" type="checkbox"/>
Kd_tbp_TR	Kd_tbp_TR		1.000		<input checked="" type="checkbox"/>
conc_cam	conc_cam		10^{-6}		<input checked="" type="checkbox"/>
Kd_tbp_RR	Kd_tbp_RR		10^{-9}		<input checked="" type="checkbox"/>
conc_tbp	conc_tbp		10^{-6}		<input checked="" type="checkbox"/>
kon_rbp	kon_rbp		10^8		<input checked="" type="checkbox"/>
KCT	KCT		$6.242 \cdot 10^{-5}$		<input checked="" type="checkbox"/>
KAT	KAT		$9.192 \cdot 10^{-5}$		<input checked="" type="checkbox"/>
kon_DR	kon_DR		10^7		<input type="checkbox"/>
kon_BR	kon_BR		10^9		<input type="checkbox"/>
koff_tbp_RR	koff_tbp_RR		0.100		<input type="checkbox"/>
k_T2R_N2	k_T2R_N2		670413.817		<input type="checkbox"/>
k_T2R_N1	k_T2R_N1		144.139		<input type="checkbox"/>
koff_AT	koff_AT		91920.000		<input type="checkbox"/>
koff_tbp_TR	koff_tbp_TR		10^8		<input type="checkbox"/>
kon_BT	kon_BT		10^9		<input type="checkbox"/>
koff_tbp_TT	koff_tbp_TT		10^8		<input type="checkbox"/>
koff_DR	koff_DR		0.198		<input type="checkbox"/>

Id	Name	SBO	Value	Unit	Constant
k_R2T_C1	k_R2T_C1		10000.000		□
k_R2T_C2	k_R2T_C2		10000.000		□
koff_rbp_RT	koff_rbp_RT		60000.000		□
koff_DT	koff_DT		624.200		□
kon_DT	kon_DT		10^7		□
koff_rbp_RR	koff_rbp_RR		0.005		□
k_T2R_C	k_T2R_C		1.161		□
koff_tbp_RT	koff_tbp_RT		10^8		□
koff_CT	koff_CT		624.200		□
koff_BT	koff_BT		91920.000		□
k_T2R_C1	k_T2R_C1		3661.039		□
k_T2R_C2	k_T2R_C2		$1.15490174876063 \cdot 10^7$		□
koff_AR	koff_AR		19.763		□
koff_CR	koff_CR		0.198		□
koff_BR	koff_BR		19.763		□
KAR	KAR		$1.97628 \cdot 10^{-8}$		□
koff_rbp_TR	koff_rbp_TR		7.000		□
k_R2T_N1	k_R2T_N1		10000.000		□
KCR	KCR		$1.978714 \cdot 10^{-8}$		□
KBR	KBR		$1.97628 \cdot 10^{-8}$		□
k_T2R_N	k_T2R_N		0.031		□
k_R2T_N2	k_R2T_N2		10000.000		□
KDR	KDR		$1.978714 \cdot 10^{-8}$		□
koff_rbp_TT	koff_rbp_TT		60000.000		□
cam_tbp_tot	cam_tbp_tot		0.000		□
ybarN_0	ybarN_0		0.000		□
ybar_rbp	ybar_rbp		0.000		□
cam_tot	cam_tot		$3.3 \cdot 10^{-5}$		□
ybar_tot	ybar_tot		0.000		□
cam_tbp_bound-fraction	cam_tbp_bound-fraction		0.000		□
ybar_tbp	ybar_tbp		0.000		□
cam_0_tot	cam_0_tot		$3.3 \cdot 10^{-5}$		□
ybarN_tot	ybarN_tot		0.000		□
cam_0_bound-fraction	cam_0_bound-fraction		1.000		□
ybar_0	ybar_0		0.000		□
cam_rbp_bound-fraction	cam_rbp_bound-fraction		0.000		□
ybarC_0	ybarC_0		0.000		□

Id	Name	SBO	Value	Unit	Constant
ybarN_rbp	ybarN_rbp		0.000		<input type="checkbox"/>
ybarC_rbp	ybarC_rbp		0.000		<input type="checkbox"/>
ybarN_tbp	ybarN_tbp		0.000		<input type="checkbox"/>
ybarC_tbp	ybarC_tbp		0.000		<input type="checkbox"/>
ybarC_tot	ybarC_tot		0.000		<input type="checkbox"/>
cam_rbp_tot	cam_rbp_tot		0.000		<input type="checkbox"/>

6 Rules

This is an overview of 53 rules.

6.1 Rule kon_DR

Rule kon_DR is an assignment rule for parameter kon_DR:

$$\text{kon_DR} = \text{kon_CR} \quad (1)$$

6.2 Rule kon_BR

Rule kon_BR is an assignment rule for parameter kon_BR:

$$\text{kon_BR} = \text{kon_AR} \quad (2)$$

6.3 Rule koff_tbp_RR

Rule koff_tbp_RR is an assignment rule for parameter koff_tbp_RR:

$$\text{koff_tbp_RR} = \text{Kd_tbp_RR} \cdot \text{kon_tbp} \quad (3)$$

6.4 Rule koff_AT

Rule koff_AT is an assignment rule for parameter koff_AT:

$$\text{koff_AT} = \text{KAT} \cdot \text{kon_AT} \quad (4)$$

6.5 Rule koff_tbp_TR

Rule koff_tbp_TR is an assignment rule for parameter koff_tbp_TR:

$$\text{koff_tbp_TR} = \text{Kd_tbp_TR} \cdot \text{kon_tbp} \quad (5)$$

6.6 Rule kon_BT

Rule kon_BT is an assignment rule for parameter kon_BT:

$$\text{kon_BT} = \text{kon_AT} \quad (6)$$

6.7 Rule koff_tbp_TT

Rule koff_tbp_TT is an assignment rule for parameter koff_tbp_TT:

$$\text{koff_tbp_TT} = \text{Kd_tbp_TT} \cdot \text{kon_tbp} \quad (7)$$

6.8 Rule k_R2T_C1

Rule k_R2T_C1 is an assignment rule for parameter k_R2T_C1:

$$\text{k_R2T_C1} = \text{k_R2T_C} \quad (8)$$

6.9 Rule k_R2T_C2

Rule k_R2T_C2 is an assignment rule for parameter k_R2T_C2:

$$\text{k_R2T_C2} = \text{k_R2T_C} \quad (9)$$

6.10 Rule koff_rbp_RT

Rule koff_rbp_RT is an assignment rule for parameter koff_rbp_RT:

$$\text{koff_rbp_RT} = \text{Kd_rbp_RT} \cdot \text{kon_rbp} \quad (10)$$

6.11 Rule kon_DT

Rule kon_DT is an assignment rule for parameter kon_DT:

$$\text{kon_DT} = \text{kon_CT} \quad (11)$$

6.12 Rule koff_DT

Rule koff_DT is an assignment rule for parameter koff_DT:

$$\text{koff_DT} = \text{KDT} \cdot \text{kon_DT} \quad (12)$$

6.13 Rule koff_rbp_RR

Rule koff_rbp_RR is an assignment rule for parameter koff_rbp_RR:

$$\text{koff_rbp_RR} = \text{Kd_rbp_RR} \cdot \text{kon_rbp} \quad (13)$$

6.14 Rule k_T2R_C

Rule k_T2R_C is an assignment rule for parameter k_T2R_C:

$$\text{k_T2R_C} = \frac{\text{k_R2T_C}}{\text{lC}} \quad (14)$$

6.15 Rule koff_tbp_RT

Rule koff_tbp_RT is an assignment rule for parameter koff_tbp_RT:

$$\text{koff_tbp_RT} = \text{Kd_tbp_RT} \cdot \text{kon_tbp} \quad (15)$$

6.16 Rule koff_CT

Rule koff_CT is an assignment rule for parameter koff_CT:

$$\text{koff_CT} = \text{KCT} \cdot \text{kon_CT} \quad (16)$$

6.17 Rule koff_BT

Rule koff_BT is an assignment rule for parameter koff_BT:

$$\text{koff_BT} = \text{KBT} \cdot \text{kon_BT} \quad (17)$$

6.18 Rule k_T2R_C1

Rule k_T2R_C1 is an assignment rule for parameter k_T2R_C1:

$$k_{\text{T2R_C1}} = \frac{k_{\text{R2T_C1}}}{lC \cdot cC} \quad (18)$$

6.19 Rule k_T2R_C2

Rule k_T2R_C2 is an assignment rule for parameter k_T2R_C2:

$$k_{\text{T2R_C2}} = \frac{k_{\text{R2T_C2}}}{lC \cdot cC \cdot cC} \quad (19)$$

6.20 Rule KAR

Rule KAR is an assignment rule for parameter KAR:

$$\text{KAR} = \text{KAT} \cdot \text{cN} \quad (20)$$

6.21 Rule koff_AR

Rule koff_AR is an assignment rule for parameter koff_AR:

$$\text{koff_AR} = \text{KAR} \cdot \text{kon_AR} \quad (21)$$

6.22 Rule koff_rbp_TR

Rule koff_rbp_TR is an assignment rule for parameter koff_rbp_TR:

$$\text{koff_rbp_TR} = \text{Kd_rbp_TR} \cdot \text{kon_rbp} \quad (22)$$

6.23 Rule k_R2T_N1

Rule k_R2T_N1 is an assignment rule for parameter k_R2T_N1:

$$k_{R2T_N1} = k_{R2T_N} \quad (23)$$

6.24 Rule k_T2R_N1

Rule k_T2R_N1 is an assignment rule for parameter k_T2R_N1:

$$k_{T2R_N1} = \frac{k_{R2T_N1}}{lN \cdot cN} \quad (24)$$

6.25 Rule KCR

Rule KCR is an assignment rule for parameter KCR:

$$KCR = KCT \cdot cC \quad (25)$$

6.26 Rule koff_CR

Rule koff_CR is an assignment rule for parameter koff_CR:

$$koff_{CR} = KCR \cdot kon_{CR} \quad (26)$$

6.27 Rule KBR

Rule KBR is an assignment rule for parameter KBR:

$$KBR = KBT \cdot cN \quad (27)$$

6.28 Rule koff_BR

Rule koff_BR is an assignment rule for parameter koff_BR:

$$koff_{BR} = KBR \cdot kon_{BR} \quad (28)$$

6.29 Rule k_T2R_N

Rule k_T2R_N is an assignment rule for parameter k_T2R_N:

$$k_{T2R_N} = \frac{k_{R2T_N}}{lN} \quad (29)$$

6.30 Rule k_R2T_N2

Rule k_R2T_N2 is an assignment rule for parameter k_R2T_N2:

$$k_{R2T_N2} = k_{R2T_N} \quad (30)$$

6.31 Rule k_T2R_N2

Rule k_T2R_N2 is an assignment rule for parameter k_T2R_N2:

$$k_{T2R_N2} = \frac{k_{R2T_N2}}{IN \cdot cN \cdot cN} \quad (31)$$

6.32 Rule KDR

Rule KDR is an assignment rule for parameter KDR:

$$KDR = KDT \cdot cC \quad (32)$$

6.33 Rule koff_DR

Rule koff_DR is an assignment rule for parameter koff_DR:

$$koff_DR = KDR \cdot kon_DR \quad (33)$$

6.34 Rule koff_rbp_TT

Rule koff_rbp_TT is an assignment rule for parameter koff_rbp_TT:

$$koff_rbp_TT = Kd_rbp_TT \cdot kon_rbp \quad (34)$$

6.35 Rule cam_tbp_tot

Rule cam_tbp_tot is an assignment rule for parameter cam_tbp_tot:

$$\begin{aligned}
 \text{cam_tbp_tot} = & [\text{cam_RR_0_tbp}] + [\text{cam_RR_A_tbp}] + [\text{cam_RR_B_tbp}] + [\text{cam_RR_C_tbp}] \\
 & + [\text{cam_RR_D_tbp}] + [\text{cam_RR_AB_tbp}] + [\text{cam_RR_AC_tbp}] \\
 & + [\text{cam_RR_AD_tbp}] + [\text{cam_RR_BC_tbp}] + [\text{cam_RR_BD_tbp}] \\
 & + [\text{cam_RR_CD_tbp}] + [\text{cam_RR_ABC_tbp}] + [\text{cam_RR_ABD_tbp}] \\
 & + [\text{cam_RR_ACD_tbp}] + [\text{cam_RR_BCD_tbp}] + [\text{cam_RR_ABCD_tbp}] \\
 & + [\text{cam_RT_0_tbp}] + [\text{cam_RT_A_tbp}] + [\text{cam_RT_B_tbp}] + [\text{cam_RT_C_tbp}] \\
 & + [\text{cam_RT_D_tbp}] + [\text{cam_RT_AB_tbp}] + [\text{cam_RT_AC_tbp}] \\
 & + [\text{cam_RT_AD_tbp}] + [\text{cam_RT_BC_tbp}] + [\text{cam_RT_BD_tbp}] \\
 & + [\text{cam_RT_CD_tbp}] + [\text{cam_RT_ABC_tbp}] + [\text{cam_RT_ABD_tbp}] \\
 & + [\text{cam_RT_ACD_tbp}] + [\text{cam_RT_BCD_tbp}] + [\text{cam_RT_ABCD_tbp}] \\
 & + [\text{cam_TR_0_tbp}] + [\text{cam_TR_A_tbp}] + [\text{cam_TR_B_tbp}] + [\text{cam_TR_C_tbp}] \\
 & + [\text{cam_TR_D_tbp}] + [\text{cam_TR_AB_tbp}] + [\text{cam_TR_AC_tbp}] \\
 & + [\text{cam_TR_AD_tbp}] + [\text{cam_TR_BC_tbp}] + [\text{cam_TR_BD_tbp}] \\
 & + [\text{cam_TR_CD_tbp}] + [\text{cam_TR_ABC_tbp}] + [\text{cam_TR_ABD_tbp}] \\
 & + [\text{cam_TR_ACD_tbp}] + [\text{cam_TR_BCD_tbp}] + [\text{cam_TR_ABCD_tbp}] \\
 & + [\text{cam_TT_0_tbp}] + [\text{cam_TT_A_tbp}] + [\text{cam_TT_B_tbp}] + [\text{cam_TT_C_tbp}] \\
 & + [\text{cam_TT_D_tbp}] + [\text{cam_TT_AB_tbp}] + [\text{cam_TT_AC_tbp}] \\
 & + [\text{cam_TT_AD_tbp}] + [\text{cam_TT_BC_tbp}] + [\text{cam_TT_BD_tbp}] \\
 & + [\text{cam_TT_CD_tbp}] + [\text{cam_TT_ABC_tbp}] + [\text{cam_TT_ABD_tbp}] \\
 & + [\text{cam_TT_ACD_tbp}] + [\text{cam_TT_BCD_tbp}] + [\text{cam_TT_ABCD_tbp}]
 \end{aligned} \tag{35}$$

Derived unit mol·l⁻¹

6.36 Rule cam_tot

Rule `cam_tot` is an assignment rule for parameter `cam_tot`:

cam_tot = [cam_RR_0_0] + [cam_RR_0_rbp] + [cam_RR_0_tbp] + [cam_RR_A_0]
 + [cam_RR_A_rbp] + [cam_RR_A_tbp] + [cam_RR_B_0] + [cam_RR_B_rbp]
 + [cam_RR_B_tbp] + [cam_RR_C_0] + [cam_RR_C_rbp] + [cam_RR_C_tbp] + [cam_RR_D_0]
 + [cam_RR_D_rbp] + [cam_RR_D_tbp] + [cam_RR_AB_0] + [cam_RR_AB_rbp]
 + [cam_RR_AB_tbp] + [cam_RR_AC_0] + [cam_RR_AC_rbp] + [cam_RR_AC_tbp]
 + [cam_RR_AD_0] + [cam_RR_AD_rbp] + [cam_RR_AD_tbp] + [cam_RR_BC_0]
 + [cam_RR_BC_rbp] + [cam_RR_BC_tbp] + [cam_RR_BD_0] + [cam_RR_BD_rbp]
 + [cam_RR_BD_tbp] + [cam_RR_CD_0] + [cam_RR_CD_rbp] + [cam_RR_CD_tbp]
 + [cam_RR_ABC_0] + [cam_RR_ABC_rbp] + [cam_RR_ABC_tbp] + [cam_RR_ABD_0]
 + [cam_RR_ABD_rbp] + [cam_RR_ABD_tbp] + [cam_RR_ACD_0] + [cam_RR_ACD_rbp]
 + [cam_RR_ACD_tbp] + [cam_RR_BCD_0] + [cam_RR_BCD_rbp] + [cam_RR_BCD_tbp]
 + [cam_RR_ABCD_0] + [cam_RR_ABCD_rbp] + [cam_RR_ABCD_tbp] + [cam_RT_0_0]
 + [cam_RT_0_rbp] + [cam_RT_0_tbp] + [cam_RT_A_0] + [cam_RT_A_rbp]
 + [cam_RT_A_tbp] + [cam_RT_B_0] + [cam_RT_B_rbp] + [cam_RT_B_tbp]
 + [cam_RT_C_0] + [cam_RT_C_rbp] + [cam_RT_C_tbp] + [cam_RT_D_0]
 + [cam_RT_D_rbp] + [cam_RT_D_tbp] + [cam_RT_AB_0] + [cam_RT_AB_rbp]
 + [cam_RT_AB_tbp] + [cam_RT_AC_0] + [cam_RT_AC_rbp] + [cam_RT_AC_tbp]
 + [cam_RT_AD_0] + [cam_RT_AD_rbp] + [cam_RT_AD_tbp] + [cam_RT_BC_0]
 + [cam_RT_BC_rbp] + [cam_RT_BC_tbp] + [cam_RT_BD_0] + [cam_RT_BD_rbp]
 + [cam_RT_BD_tbp] + [cam_RT_CD_0] + [cam_RT_CD_rbp] + [cam_RT_CD_tbp]
 + [cam_RT_ABC_0] + [cam_RT_ABC_rbp] + [cam_RT_ABC_tbp] + [cam_RT_ABD_0]
 + [cam_RT_ABD_rbp] + [cam_RT_ABD_tbp] + [cam_RT_ACD_0] + [cam_RT_ACD_rbp]
 + [cam_RT_ACD_tbp] + [cam_RT_BCD_0] + [cam_RT_BCD_rbp] + [cam_RT_BCD_tbp]
 + [cam_RT_ABCD_0] + [cam_RT_ABCD_rbp] + [cam_RT_ABCD_tbp] + [cam_TR_0_0]
 + [cam_TR_0_rbp] + [cam_TR_0_tbp] + [cam_TR_A_0] + [cam_TR_A_rbp]
 + [cam_TR_A_tbp] + [cam_TR_B_0] + [cam_TR_B_rbp] + [cam_TR_B_tbp]
 + [cam_TR_C_0] + [cam_TR_C_rbp] + [cam_TR_C_tbp] + [cam_TR_D_0]
 + [cam_TR_D_rbp] + [cam_TR_D_tbp] + [cam_TR_AB_0] + [cam_TR_AB_rbp]
 + [cam_TR_AB_tbp] + [cam_TR_AC_0] + [cam_TR_AC_rbp] + [cam_TR_AC_tbp]
 + [cam_TR_AD_0] + [cam_TR_AD_rbp] + [cam_TR_AD_tbp] + [cam_TR_BC_0]
 + [cam_TR_BC_rbp] + [cam_TR_BC_tbp] + [cam_TR_BD_0] + [cam_TR_BD_rbp]
 + [cam_TR_BD_tbp] + [cam_TR_CD_0] + [cam_TR_CD_rbp] + [cam_TR_CD_tbp]
 + [cam_TR_ABC_0] + [cam_TR_ABC_rbp] + [cam_TR_ABC_tbp] + [cam_TR_ABD_0]
 + [cam_TR_ABD_rbp] + [cam_TR_ABD_tbp] + [cam_TR_ACD_0] + [cam_TR_ACD_rbp]
 + [cam_TR_ACD_tbp] + [cam_TR_BCD_0] + [cam_TR_BCD_rbp] + [cam_TR_BCD_tbp]
 + [cam_TR_ABCD_0] + [cam_TR_ABCD_rbp] + [cam_TR_ABCD_tbp] + [cam_TT_0_0]
 + [cam_TT_0_rbp] + [cam_TT_0_tbp] + [cam_TT_A_0] + [cam_TT_A_rbp]
 + [cam_TT_A_tbp] + [cam_TT_B_0] + [cam_TT_B_rbp] + [cam_TT_B_tbp]
 + [cam_TT_C_0] + [cam_TT_C_rbp] + [cam_TT_C_tbp] + [cam_TT_D_0]
 + [cam_TT_D_rbp] + [cam_TT_D_tbp] + [cam_TT_AB_0] + [cam_TT_AB_rbp]
 + [cam_TT_AB_tbp] + [cam_TT_AC_0] + [cam_TT_AC_rbp] + [cam_TT_AC_tbp]
 + [cam_TT_AD_0] + [cam_TT_AD_rbp] + [cam_TT_AD_tbp] + [cam_TT_BC_0]
 + [cam_TT_BC_rbp] + [cam_TT_BC_tbp] + [cam_TT_BD_0] + [cam_TT_BD_rbp]
 + [cam_TT_BD_tbp] + [cam_TT_CD_0] + [cam_TT_CD_rbp] + [cam_TT_CD_tbp]
 + [cam_TT_ABC_0] + [cam_TT_ABC_rbp] + [cam_TT_ABC_tbp] + [cam_TT_ABD_0]
 + [cam_TT_ABD_rbp] + [cam_TT_ABD_tbp] + [cam_TT_ACD_0] + [cam_TT_ACD_rbp]
 + [cam_TT_ACD_tbp] + [cam_TT_BCD_0] + [cam_TT_BCD_rbp] + [cam_TT_BCD_tbp]
 + [cam_TT_ABCD_0] + [cam_TT_ABCD_rbp] + [cam_TT_ABCD_tbp]

Derived unit mol·l⁻¹

6.37 Rule ybar_tot

Rule ybar_tot is an assignment rule for parameter ybar_tot:

$$\begin{aligned} \text{ybar_tot} \\ = \end{aligned} \quad (37)$$
$$1 \cdot [\text{cam_RR_A_0}] + 1 \cdot [\text{cam_RR_A_rbp}] + 1 \cdot [\text{cam_RR_A_tbp}] + 1 \cdot [\text{cam_RR_B_0}] + 1 \cdot [\text{cam_RR_B_rbp}] + 1 \cdot [\text{cam_RR_B_tbp}]$$

6.38 Rule cam_tbp_bound_fraction

Rule cam_tbp_bound_fraction is an assignment rule for parameter cam_tbp_bound_fraction:

$$\begin{aligned} \text{cam_tbp_bound_fraction} \\ = \end{aligned} \quad (38)$$
$$[\text{cam_RR_0_tbp}] + [\text{cam_RR_A_tbp}] + [\text{cam_RR_B_tbp}] + [\text{cam_RR_C_tbp}] + [\text{cam_RR_D_tbp}] + [\text{cam_RR_AB_tbp}]$$

6.39 Rule ybar_tbp

Rule ybar_tbp is an assignment rule for parameter ybar_tbp:

$$\begin{aligned} \text{ybar_tbp} \\ = \end{aligned} \quad (39)$$
$$1 \cdot [\text{cam_RR_A_tbp}] + 1 \cdot [\text{cam_RR_B_tbp}] + 1 \cdot [\text{cam_RR_C_tbp}] + 1 \cdot [\text{cam_RR_D_tbp}] + 2 \cdot [\text{cam_RR_AB_tbp}] +$$

6.40 Rule cam_0_tot

Rule cam_0_tot is an assignment rule for parameter cam_0_tot:

$$\begin{aligned} \text{cam_0_tot} = & [\text{cam_RR_0_0}] + [\text{cam_RR_A_0}] + [\text{cam_RR_B_0}] + [\text{cam_RR_C_0}] + [\text{cam_RR_D_0}] \\ & + [\text{cam_RR_AB_0}] + [\text{cam_RR_AC_0}] + [\text{cam_RR_AD_0}] + [\text{cam_RR_BC_0}] \\ & + [\text{cam_RR_BD_0}] + [\text{cam_RR_CD_0}] + [\text{cam_RR_ABC_0}] + [\text{cam_RR_ABD_0}] \\ & + [\text{cam_RR_ACD_0}] + [\text{cam_RR_BCD_0}] + [\text{cam_RR_ABCD_0}] + [\text{cam_RT_0_0}] \\ & + [\text{cam_RT_A_0}] + [\text{cam_RT_B_0}] + [\text{cam_RT_C_0}] + [\text{cam_RT_D_0}] \\ & + [\text{cam_RT_AB_0}] + [\text{cam_RT_AC_0}] + [\text{cam_RT_AD_0}] + [\text{cam_RT_BC_0}] \\ & + [\text{cam_RT_BD_0}] + [\text{cam_RT_CD_0}] + [\text{cam_RT_ABC_0}] + [\text{cam_RT_ABD_0}] \\ & + [\text{cam_RT_ACD_0}] + [\text{cam_RT_BCD_0}] + [\text{cam_RT_ABCD_0}] + [\text{cam_TR_0_0}] \\ & + [\text{cam_TR_A_0}] + [\text{cam_TR_B_0}] + [\text{cam_TR_C_0}] + [\text{cam_TR_D_0}] \\ & + [\text{cam_TR_AB_0}] + [\text{cam_TR_AC_0}] + [\text{cam_TR_AD_0}] + [\text{cam_TR_BC_0}] \\ & + [\text{cam_TR_BD_0}] + [\text{cam_TR_CD_0}] + [\text{cam_TR_ABC_0}] + [\text{cam_TR_ABD_0}] \\ & + [\text{cam_TR_ACD_0}] + [\text{cam_TR_BCD_0}] + [\text{cam_TR_ABCD_0}] + [\text{cam_TT_0_0}] \\ & + [\text{cam_TT_A_0}] + [\text{cam_TT_B_0}] + [\text{cam_TT_C_0}] + [\text{cam_TT_D_0}] \\ & + [\text{cam_TT_AB_0}] + [\text{cam_TT_AC_0}] + [\text{cam_TT_AD_0}] + [\text{cam_TT_BC_0}] \\ & + [\text{cam_TT_BD_0}] + [\text{cam_TT_CD_0}] + [\text{cam_TT_ABC_0}] + [\text{cam_TT_ABD_0}] \\ & + [\text{cam_TT_ACD_0}] + [\text{cam_TT_BCD_0}] + [\text{cam_TT_ABCD_0}] \end{aligned} \quad (40)$$

Derived unit mol·l⁻¹

6.41 Rule ybarN_0

Rule ybarN_0 is an assignment rule for parameter ybarN_0:

$$\begin{aligned} \text{ybarN}_0 \\ = \frac{1 \cdot [\text{cam_RR_A_0}] + 1 \cdot [\text{cam_RR_B_0}] + 2 \cdot [\text{cam_RR_AB_0}] + 1 \cdot [\text{cam_RR_AC_0}] + 1 \cdot [\text{cam_RR_AD_0}] + 1 \cdot [\text{cam_RR_C_0}] + 1 \cdot [\text{cam_RR_D_0}] + 1 \cdot [\text{cam_RR_BC_0}] + 1 \cdot [\text{cam_RR_DC_0}]}{10} \end{aligned} \quad (41)$$

6.42 Rule ybarN_tot

Rule ybarN_tot is an assignment rule for parameter ybarN_tot:

$$\begin{aligned} \text{ybarN}_\text{tot} \\ = \frac{1 \cdot [\text{cam_RR_A_0}] + 1 \cdot [\text{cam_RR_A_rbp}] + 1 \cdot [\text{cam_RR_A_tbp}] + 1 \cdot [\text{cam_RR_B_0}] + 1 \cdot [\text{cam_RR_B_rbp}] + 1 \cdot [\text{cam_RR_B_tbp}] + 1 \cdot [\text{cam_RR_C_0}] + 1 \cdot [\text{cam_RR_C_rbp}] + 1 \cdot [\text{cam_RR_C_tbp}] + 1 \cdot [\text{cam_RR_D_0}] + 1 \cdot [\text{cam_RR_D_rbp}] + 1 \cdot [\text{cam_RR_D_tbp}]}{12} \end{aligned} \quad (42)$$

6.43 Rule cam_0_bound_fraction

Rule cam_0_bound_fraction is an assignment rule for parameter cam_0_bound_fraction:

$$\begin{aligned} \text{cam_0_bound_fraction} \\ = \frac{[\text{cam_RR_0_0}] + [\text{cam_RR_A_0}] + [\text{cam_RR_B_0}] + [\text{cam_RR_C_0}] + [\text{cam_RR_D_0}] + [\text{cam_RR_AB_0}] + [\text{cam_RR_AC_0}] + [\text{cam_RR_AD_0}] + [\text{cam_RR_BC_0}] + [\text{cam_RR_DC_0}]}{10} \end{aligned} \quad (43)$$

6.44 Rule ybar_0

Rule ybar_0 is an assignment rule for parameter ybar_0:

$$\begin{aligned} \text{ybar}_0 \\ = \frac{1 \cdot [\text{cam_RR_A_0}] + 1 \cdot [\text{cam_RR_B_0}] + 1 \cdot [\text{cam_RR_C_0}] + 1 \cdot [\text{cam_RR_D_0}] + 2 \cdot [\text{cam_RR_AB_0}] + 2 \cdot [\text{cam_RR_AC_0}] + 2 \cdot [\text{cam_RR_AD_0}] + 2 \cdot [\text{cam_RR_BC_0}] + 2 \cdot [\text{cam_RR_DC_0}]}{10} \end{aligned} \quad (44)$$

6.45 Rule cam_rbp_bound_fraction

Rule cam_rbp_bound_fraction is an assignment rule for parameter cam_rbp_bound_fraction:

$$\begin{aligned} \text{cam_rbp_bound_fraction} \\ = \frac{[\text{cam_RR_0_rbp}] + [\text{cam_RR_A_rbp}] + [\text{cam_RR_B_rbp}] + [\text{cam_RR_C_rbp}] + [\text{cam_RR_D_rbp}] + [\text{cam_RR_AB_rbp}] + [\text{cam_RR_AC_rbp}] + [\text{cam_RR_AD_rbp}] + [\text{cam_RR_BC_rbp}] + [\text{cam_RR_DC_rbp}]}{10} \end{aligned} \quad (45)$$

6.46 Rule ybarC_0

Rule ybarC_0 is an assignment rule for parameter ybarC_0:

$$\begin{aligned} \text{ybarC}_0 \\ = \frac{1 \cdot [\text{cam_RR_C_0}] + 1 \cdot [\text{cam_RR_D_0}] + 1 \cdot [\text{cam_RR_AC_0}] + 1 \cdot [\text{cam_RR_AD_0}] + 1 \cdot [\text{cam_RR_BC_0}] + 1 \cdot [\text{cam_RR_DC_0}]}{6} \end{aligned} \quad (46)$$

6.47 Rule ybarN_tbp

Rule ybarN_tbp is an assignment rule for parameter ybarN_tbp:

$$\text{ybarN_tbp} \quad (47)$$

$$= \frac{1 \cdot [\text{cam_RR_A_tbp}] + 1 \cdot [\text{cam_RR_B_tbp}] + 2 \cdot [\text{cam_RR_AB_tbp}] + 1 \cdot [\text{cam_RR_AC_tbp}] + 1 \cdot [\text{cam_RR_AD_tbp}]}{1 \cdot [\text{cam_RR_C_tbp}] + 1 \cdot [\text{cam_RR_D_tbp}] + 1 \cdot [\text{cam_RR_AC_tbp}] + 1 \cdot [\text{cam_RR_AD_tbp}] + 1 \cdot [\text{cam_RR_BC_tbp}]}$$

6.48 Rule ybarC_tbp

Rule ybarC_tbp is an assignment rule for parameter ybarC_tbp:

$$\text{ybarC_tbp} \quad (48)$$

$$= \frac{1 \cdot [\text{cam_RR_C_tbp}] + 1 \cdot [\text{cam_RR_D_tbp}] + 1 \cdot [\text{cam_RR_AC_tbp}] + 1 \cdot [\text{cam_RR_AD_tbp}] + 1 \cdot [\text{cam_RR_BC_tbp}]}{1 \cdot [\text{cam_RR_A_tbp}] + 1 \cdot [\text{cam_RR_B_tbp}] + 2 \cdot [\text{cam_RR_AB_tbp}] + 1 \cdot [\text{cam_RR_AC_tbp}] + 1 \cdot [\text{cam_RR_AD_tbp}]}$$

6.49 Rule ybarC_tot

Rule ybarC_tot is an assignment rule for parameter ybarC_tot:

$$\text{ybarC_tot} \quad (49)$$

$$= \frac{1 \cdot [\text{cam_RR_C_0}] + 1 \cdot [\text{cam_RR_C_rbp}] + 1 \cdot [\text{cam_RR_C_tbp}] + 1 \cdot [\text{cam_RR_D_0}] + 1 \cdot [\text{cam_RR_D_rbp}] + 1 \cdot [\text{cam_RR_D_tbp}]}{1 \cdot [\text{cam_RR_A_tbp}] + 1 \cdot [\text{cam_RR_B_tbp}] + 2 \cdot [\text{cam_RR_AB_tbp}] + 1 \cdot [\text{cam_RR_AC_tbp}] + 1 \cdot [\text{cam_RR_AD_tbp}]}$$

6.50 Rule cam_rbp_tot

Rule `cam_rbp_tot` is an assignment rule for parameter `cam_rbp_tot`:

$$\begin{aligned}
 \text{cam_rbp_tot} = & [\text{cam_RR_0_rbp}] + [\text{cam_RR_A_rbp}] + [\text{cam_RR_B_rbp}] + [\text{cam_RR_C_rbp}] \\
 & + [\text{cam_RR_D_rbp}] + [\text{cam_RR_AB_rbp}] + [\text{cam_RR_AC_rbp}] \\
 & + [\text{cam_RR_AD_rbp}] + [\text{cam_RR_BC_rbp}] + [\text{cam_RR_BD_rbp}] \\
 & + [\text{cam_RR_CD_rbp}] + [\text{cam_RR_ABC_rbp}] + [\text{cam_RR_ABD_rbp}] \\
 & + [\text{cam_RR_ACD_rbp}] + [\text{cam_RR_BCD_rbp}] + [\text{cam_RR_ABCD_rbp}] \\
 & + [\text{cam_RT_0_rbp}] + [\text{cam_RT_A_rbp}] + [\text{cam_RT_B_rbp}] + [\text{cam_RT_C_rbp}] \\
 & + [\text{cam_RT_D_rbp}] + [\text{cam_RT_AB_rbp}] + [\text{cam_RT_AC_rbp}] \\
 & + [\text{cam_RT_AD_rbp}] + [\text{cam_RT_BC_rbp}] + [\text{cam_RT_BD_rbp}] \\
 & + [\text{cam_RT_CD_rbp}] + [\text{cam_RT_ABC_rbp}] + [\text{cam_RT_ABD_rbp}] \\
 & + [\text{cam_RT_ACD_rbp}] + [\text{cam_RT_BCD_rbp}] + [\text{cam_RT_ABCD_rbp}] \\
 & + [\text{cam_TR_0_rbp}] + [\text{cam_TR_A_rbp}] + [\text{cam_TR_B_rbp}] + [\text{cam_TR_C_rbp}] \\
 & + [\text{cam_TR_D_rbp}] + [\text{cam_TR_AB_rbp}] + [\text{cam_TR_AC_rbp}] \\
 & + [\text{cam_TR_AD_rbp}] + [\text{cam_TR_BC_rbp}] + [\text{cam_TR_BD_rbp}] \\
 & + [\text{cam_TR_CD_rbp}] + [\text{cam_TR_ABC_rbp}] + [\text{cam_TR_ABD_rbp}] \\
 & + [\text{cam_TR_ACD_rbp}] + [\text{cam_TR_BCD_rbp}] + [\text{cam_TR_ABCD_rbp}] \\
 & + [\text{cam_TT_0_rbp}] + [\text{cam_TT_A_rbp}] + [\text{cam_TT_B_rbp}] + [\text{cam_TT_C_rbp}] \\
 & + [\text{cam_TT_D_rbp}] + [\text{cam_TT_AB_rbp}] + [\text{cam_TT_AC_rbp}] \\
 & + [\text{cam_TT_AD_rbp}] + [\text{cam_TT_BC_rbp}] + [\text{cam_TT_BD_rbp}] \\
 & + [\text{cam_TT_CD_rbp}] + [\text{cam_TT_ABC_rbp}] + [\text{cam_TT_ABD_rbp}] \\
 & + [\text{cam_TT_ACD_rbp}] + [\text{cam_TT_BCD_rbp}] + [\text{cam_TT_ABCD_rbp}]
 \end{aligned} \tag{50}$$

Derived unit mol·l⁻¹

6.51 Rule ybar_rbp

Rule `ybar_rbp` is an assignment rule for parameter `ybar_rbp`:

$$\begin{aligned}
 \text{ybar_rbp} \\
 = \underline{1 \cdot [\text{cam_RR_A_rbp}] + 1 \cdot [\text{cam_RR_B_rbp}] + 1 \cdot [\text{cam_RR_C_rbp}] + 1 \cdot [\text{cam_RR_D_rbp}] + 2 \cdot [\text{cam_RR_AB_rbp}]}
 \end{aligned} \tag{51}$$

6.52 Rule ybarN_rbp

Rule `ybarN_rbp` is an assignment rule for parameter `ybarN_rbp`:

$$\begin{aligned}
 \text{ybarN_rbp} \\
 = \underline{1 \cdot [\text{cam_RR_A_rbp}] + 1 \cdot [\text{cam_RR_B_rbp}] + 2 \cdot [\text{cam_RR_AB_rbp}] + 1 \cdot [\text{cam_RR_AC_rbp}] + 1 \cdot [\text{cam_RR_AD_rbp}]}
 \end{aligned} \tag{52}$$

6.53 Rule ybarC_rbp

Rule ybarC_rbp is an assignment rule for parameter ybarC_rbp:

$$\begin{aligned} & \text{ybarC_rbp} \\ &= \frac{1 \cdot [\text{cam_RR_C_rbp}] + 1 \cdot [\text{cam_RR_D_rbp}] + 1 \cdot [\text{cam_RR_AC_rbp}] + 1 \cdot [\text{cam_RR_AD_rbp}] + 1 \cdot [\text{cam_RR_BC_rbp}]}{(53)} \end{aligned}$$

7 Reactions

This model contains 576 reactions. All reactions are listed in the following table and are subsequently described in detail. If a reaction is affected by a modifier, the identifier of this species is written above the reaction arrow.

Table 5: Overview of all reactions

Nº	Id	Name	Reaction Equation	SBO
1	rbp_binding_to_cam_RR_0_0	rbp binding to cam_RR_0_0	$\text{rbp} + \text{cam_RR_0_0} \xrightleftharpoons{\text{rbp}, \text{cam_RR_0_0}, \text{cam_RR_0_rbp}} \text{cam_RR_0_rbp}$	
2	tbp_binding_to_cam_RR_0_0	tbp binding to cam_RR_0_0	$\text{tbp} + \text{cam_RR_0_0} \xrightleftharpoons{\text{tbp}, \text{cam_RR_0_0}, \text{cam_RR_0_tbp}} \text{cam_RR_0_tbp}$	
3	ca_binding_to_cam_RR_0_0_on_site_A	ca binding to cam_RR_0_0 on site A	$\text{ca} + \text{cam_RR_0_0} \xrightleftharpoons{\text{ca}, \text{cam_RR_0_0}, \text{cam_RR_A_0}} \text{cam_RR_A_0}$	
4	rbp_binding_to_cam_RR_A_0	rbp binding to cam_RR_A_0	$\text{rbp} + \text{cam_RR_A_0} \xrightleftharpoons{\text{rbp}, \text{cam_RR_A_0}, \text{cam_RR_A_rbp}} \text{cam_RR_A_rbp}$	
5	ca_binding_to_cam_RR_0_rbp_on_site_A	ca binding to cam_RR_0_rbp on site A	$\text{ca} + \text{cam_RR_0_rbp} \xrightleftharpoons{\text{ca}, \text{cam_RR_0_rbp}, \text{cam_RR_A_rbp}} \text{cam_RR_A_rbp}$	
6	tbp_binding_to_cam_RR_A_0	tbp binding to cam_RR_A_0	$\text{tbp} + \text{cam_RR_A_0} \xrightleftharpoons{\text{tbp}, \text{cam_RR_A_0}, \text{cam_RR_A_tbp}} \text{cam_RR_A_tbp}$	
7	ca_binding_to_cam_RR_0_tbp_on_site_A	ca binding to cam_RR_0_tbp on site A	$\text{ca} + \text{cam_RR_0_tbp} \xrightleftharpoons{\text{ca}, \text{cam_RR_0_tbp}, \text{cam_RR_A_tbp}} \text{cam_RR_A_tbp}$	

Nº	Id	Name	Reaction Equation	SBO
8	ca_binding_to_cam_RR_0_0_on_site_B	ca binding to cam.RR_0_0 on site B	ca + cam.RR_0_0 $\xrightleftharpoons{\quad}$ ca, cam.RR_0_0, cam.RR_B_0	cam.RR_B_0
9	rpb_binding_to_cam_RR_B_0	rpb binding to cam.RR_B_0	rpb + cam.RR_B_0 $\xrightleftharpoons{rpb, \text{cam.RR_B_0}, \text{cam.RR_B_rpb}}$	cam.RR_B_rpb
10	ca_binding_to_cam_RR_0_rpb_on_site_B	ca binding to cam.RR_0_rpb on site B	ca + cam.RR_0_rpb $\xrightleftharpoons{\quad}$ ca, cam.RR_0_rpb, cam.RR_B_rpb	cam.RR_B_rpb
11	tbp_binding_to_cam_RR_B_0	tbp binding to cam.RR_B_0	tbp + cam.RR_B_0 $\xrightleftharpoons{tbp, \text{cam.RR_B_0}, \text{cam.RR_B_tbp}}$	cam.RR_B_tbp
12	ca_binding_to_cam_RR_0_tpb_on_site_B	ca binding to cam.RR_0_tpb on site B	ca + cam.RR_0_tpb $\xrightleftharpoons{\quad}$ ca, cam.RR_0_tpb, cam.RR_B_tpb	cam.RR_B_tpb
13	ca_binding_to_cam_RR_0_0_on_site_C	ca binding to cam.RR_0_0 on site C	ca + cam.RR_0_0 $\xrightleftharpoons{\quad}$ ca, cam.RR_0_0, cam.RR_C_0	cam.RR_C_0
14	rpb_binding_to_cam_RR_C_0	rpb binding to cam.RR_C_0	rpb + cam.RR_C_0 $\xrightleftharpoons{rpb, \text{cam.RR_C_0}, \text{cam.RR_C_rpb}}$	cam.RR_C_rpb
15	ca_binding_to_cam_RR_0_rpb_on_site_C	ca binding to cam.RR_0_rpb on site C	ca + cam.RR_0_rpb $\xrightleftharpoons{\quad}$ ca, cam.RR_0_rpb, cam.RR_C_rpb	cam.RR_C_rpb
16	tbp_binding_to_cam_RR_C_0	tbp binding to cam.RR_C_0	tbp + cam.RR_C_0 $\xrightleftharpoons{tbp, \text{cam.RR_C_0}, \text{cam.RR_C_tbp}}$	cam.RR_C_tbp

Nº	Id	Name	Reaction Equation	SBO
17	ca_binding_to_cam_RR_0_tbp_on_site_C	ca binding to cam_RR_0_tbp on site C	ca+cam_RR_0_tbp $\xrightleftharpoons{ca, cam_RR_0_tbp, cam_RR_C_tbp}$ cam_RR_C_tbp	
18	ca_binding_to_cam_RR_0_0_on_site_D	ca binding to cam_RR_0_0 on site D	ca+cam_RR_0_0 $\xrightleftharpoons{ca, cam_RR_0_0, cam_RR_D_0}$ cam_RR_D_0	
19	rbp_binding_to_cam_RR_D_0	rbp binding to cam_RR_D_0	rbp+cam_RR_D_0 $\xrightleftharpoons{rbp, cam_RR_D_0, cam_RR_D_rbp}$ cam_RR_D_rbp	
20	ca_binding_to_cam_RR_0_rbp_on_site_D	ca binding to cam_RR_0_rbp on site D	ca+cam_RR_0_rbp $\xrightleftharpoons{ca, cam_RR_0_rbp, cam_RR_D_rbp}$ cam_RR_D_rbp	
21	tbp_binding_to_cam_RR_D_0	tbp binding to cam_RR_D_0	tbp+cam_RR_D_0 $\xrightleftharpoons{tbp, cam_RR_D_0, cam_RR_D_tbp}$ cam_RR_D_tbp	
22	ca_binding_to_cam_RR_0_tbp_on_site_D	ca binding to cam_RR_0_tbp on site D	ca+cam_RR_0_tbp $\xrightleftharpoons{ca, cam_RR_0_tbp, cam_RR_D_tbp}$ cam_RR_D_tbp	
23	ca_binding_to_cam_RR_B_0_on_site_A	ca binding to cam_RR_B_0 on site A	ca+cam_RR_B_0 $\xrightleftharpoons{ca, cam_RR_B_0, cam_RR_AB_0}$ cam_RR_AB_0	
24	ca_binding_to_cam_RR_A_0_on_site_B	ca binding to cam_RR_A_0 on site B	ca+cam_RR_A_0 $\xrightleftharpoons{ca, cam_RR_A_0, cam_RR_AB_0}$ cam_RR_AB_0	
25	rbp_binding_to_cam_RR_AB_0	rbp binding to cam_RR_AB_0	rbp+cam_RR_AB_0 $\xrightleftharpoons{rbp, cam_RR_AB_0, cam_RR_AB_rbp}$ cam_RR_AB_rbp	

Nº	Id	Name	Reaction Equation	SBO
26	ca_binding_to_cam_RR_B_rbp_on_site_A	ca binding to cam_RR_B_rbp on site A	ca+cam_RR_B_rbp $\xrightleftharpoons{ca, cam_RR_B_rbp, cam_RR_AB_rbp}$	cam_RR_AB_rbp
27	ca_binding_to_cam_RR_A_rbp_on_site_B	ca binding to cam_RR_A_rbp on site B	ca+cam_RR_A_rbp $\xrightleftharpoons{ca, cam_RR_A_rbp, cam_RR_AB_rbp}$	cam_RR_AB_rbp
28	tbp_binding_to_cam_RR_AB_0	tbp binding to cam_RR_AB_0	tbp+cam_RR_AB_0 $\xrightleftharpoons{tbp, cam_RR_AB_0, cam_RR_AB_tbp}$	cam_RR_AB_tbp
29	ca_binding_to_cam_RR_B_tbp_on_site_A	ca binding to cam_RR_B_tbp on site A	ca+cam_RR_B_tbp $\xrightleftharpoons{ca, cam_RR_B_tbp, cam_RR_AB_tbp}$	cam_RR_AB_tbp
30	ca_binding_to_cam_RR_A_tbp_on_site_B	ca binding to cam_RR_A_tbp on site B	ca+cam_RR_A_tbp $\xrightleftharpoons{ca, cam_RR_A_tbp, cam_RR_AB_tbp}$	cam_RR_AB_tbp
31	ca_binding_to_cam_RR_C_0_on_site_A	ca binding to cam_RR_C_0 on site A	ca+cam_RR_C_0 $\xrightleftharpoons{ca, cam_RR_C_0, cam_RR_AC_0}$	cam_RR_AC_0
32	ca_binding_to_cam_RR_A_0_on_site_C	ca binding to cam_RR_A_0 on site C	ca+cam_RR_A_0 $\xrightleftharpoons{ca, cam_RR_A_0, cam_RR_AC_0}$	cam_RR_AC_0
33	rbp_binding_to_cam_RR_AC_0	rbp binding to cam_RR_AC_0	rbp+cam_RR_AC_0 $\xrightleftharpoons{rbp, cam_RR_AC_0, cam_RR_AC_rbp}$	cam_RR_AC_rbp

Nº	Id	Name	Reaction Equation	SBO
34	ca_binding_to_cam_RR_C_rbp_on_site_A	ca binding to cam_RR_C_rbp on site A	ca+cam_RR_C_rbp $\xrightleftharpoons{ca, cam_RR_C_rbp, cam_RR_AC_rbp}$ cam_RR_AC_rbp	
35	ca_binding_to_cam_RR_A_rbp_on_site_C	ca binding to cam_RR_A_rbp on site C	ca+cam_RR_A_rbp $\xrightleftharpoons{ca, cam_RR_A_rbp, cam_RR_AC_rbp}$ cam_RR_AC_rbp	
36	tbp_binding_to_cam_RR_AC_0	tbp binding to cam_RR_AC_0	tbp+cam_RR_AC_0 $\xrightleftharpoons{tbp, cam_RR_AC_0, cam_RR_AC_tbp}$ cam_RR_AC_tbp	
37	ca_binding_to_cam_RR_C_tbp_on_site_A	ca binding to cam_RR_C_tbp on site A	ca+cam_RR_C_tbp $\xrightleftharpoons{ca, cam_RR_C_tbp, cam_RR_AC_tbp}$ cam_RR_AC_tbp	
38	ca_binding_to_cam_RR_A_tbp_on_site_C	ca binding to cam_RR_A_tbp on site C	ca+cam_RR_A_tbp $\xrightleftharpoons{ca, cam_RR_A_tbp, cam_RR_AC_tbp}$ cam_RR_AC_tbp	
39	ca_binding_to_cam_RR_D_0_on_site_A	ca binding to cam_RR_D_0 on site A	ca+cam_RR_D_0 $\xrightleftharpoons{ca, cam_RR_D_0, cam_RR_AD_0}$ cam_RR_AD_0	
40	ca_binding_to_cam_RR_A_0_on_site_D	ca binding to cam_RR_A_0 on site D	ca+cam_RR_A_0 $\xrightleftharpoons{ca, cam_RR_A_0, cam_RR_AD_0}$ cam_RR_AD_0	
41	rbp_binding_to_cam_RR_AD_0	rbp binding to cam_RR_AD_0	rbp+cam_RR_AD_0 $\xrightleftharpoons{rbp, cam_RR_AD_0, cam_RR_AD_rbp}$ cam_RR_AD_rbp	

Nº	Id	Name	Reaction Equation	SBO
42	ca_binding_to_cam_RR_D_rbp_on_site_A	ca binding to cam_RR_D_rbp on site A	ca+cam_RR_D_rbp $\xrightleftharpoons{ca, cam_RR_D_rbp, cam_RR_AD_rbp}$ cam_RR_AD_rbp	
43	ca_binding_to_cam_RR_A_rbp_on_site_D	ca binding to cam_RR_A_rbp on site D	ca+cam_RR_A_rbp $\xrightleftharpoons{ca, cam_RR_A_rbp, cam_RR_AD_rbp}$ cam_RR_AD_rbp	
44	tbp_binding_to_cam_RR_AD_0	tbp binding to cam_RR_AD_0	tbp+cam_RR_AD_0 $\xrightleftharpoons{tbp, cam_RR_AD_0, cam_RR_AD_tbp}$ cam_RR_AD_tbp	
45	ca_binding_to_cam_RR_D_tbp_on_site_A	ca binding to cam_RR_D_tbp on site A	ca+cam_RR_D_tbp $\xrightleftharpoons{ca, cam_RR_D_tbp, cam_RR_AD_tbp}$ cam_RR_AD_tbp	
46	ca_binding_to_cam_RR_A_tbp_on_site_D	ca binding to cam_RR_A_tbp on site D	ca+cam_RR_A_tbp $\xrightleftharpoons{ca, cam_RR_A_tbp, cam_RR_AD_tbp}$ cam_RR_AD_tbp	
47	ca_binding_to_cam_RR_C_0_on_site_B	ca binding to cam_RR_C_0 on site B	ca+cam_RR_C_0 $\xrightleftharpoons{ca, cam_RR_C_0, cam_RR_BC_0}$ cam_RR_BC_0	
48	ca_binding_to_cam_RR_B_0_on_site_C	ca binding to cam_RR_B_0 on site C	ca+cam_RR_B_0 $\xrightleftharpoons{ca, cam_RR_B_0, cam_RR_BC_0}$ cam_RR_BC_0	
49	rbp_binding_to_cam_RR_BC_0	rbp binding to cam_RR_BC_0	rbp+cam_RR_BC_0 $\xrightleftharpoons{rbp, cam_RR_BC_0, cam_RR_BC_rbp}$ cam_RR_BC_rbp	

Nº	Id	Name	Reaction Equation	SBO
50	ca_binding_to_cam_RR_C_rbp_on_site_B	ca binding to cam_RR_C_rbp on site B	ca+cam_RR_C_rbp $\xrightleftharpoons{ca, cam_RR_C_rbp, cam_RR_BC_rbp}$ cam_RR_BC_rbp	
51	ca_binding_to_cam_RR_B_rbp_on_site_C	ca binding to cam_RR_B_rbp on site C	ca+cam_RR_B_rbp $\xrightleftharpoons{ca, cam_RR_B_rbp, cam_RR_BC_rbp}$ cam_RR_BC_rbp	
52	tbp_binding_to_cam_RR_BC_0	tbp binding to cam_RR_BC_0	tbp+cam_RR_BC_0 $\xrightleftharpoons{tbp, cam_RR_BC_0, cam_RR_BC_tbp}$ cam_RR_BC_tbp	
53	ca_binding_to_cam_RR_C_tbp_on_site_B	ca binding to cam_RR_C_tbp on site B	ca+cam_RR_C_tbp $\xrightleftharpoons{ca, cam_RR_C_tbp, cam_RR_BC_tbp}$ cam_RR_BC_tbp	
54	ca_binding_to_cam_RR_B_tbp_on_site_C	ca binding to cam_RR_B_tbp on site C	ca+cam_RR_B_tbp $\xrightleftharpoons{ca, cam_RR_B_tbp, cam_RR_BC_tbp}$ cam_RR_BC_tbp	
55	ca_binding_to_cam_RR_D_0_on_site_B	ca binding to cam_RR_D_0 on site B	ca+cam_RR_D_0 $\xrightleftharpoons{ca, cam_RR_D_0, cam_RR_BD_0}$ cam_RR_BD_0	
56	ca_binding_to_cam_RR_B_0_on_site_D	ca binding to cam_RR_B_0 on site D	ca+cam_RR_B_0 $\xrightleftharpoons{ca, cam_RR_B_0, cam_RR_BD_0}$ cam_RR_BD_0	
57	rbp_binding_to_cam_RR_BD_0	rbp binding to cam_RR_BD_0	rbp+cam_RR_BD_0 $\xrightleftharpoons{rbp, cam_RR_BD_0, cam_RR_BD_rbp}$ cam_RR_BD_rbp	

Nº	Id	Name	Reaction Equation	SBO
58	ca_binding_to_cam_RR_D_rbp_on_site_B	ca binding to cam_RR_D_rbp on site B	ca+cam_RR_D_rbp $\xrightleftharpoons{ca, cam_RR_D_rbp, cam_RR_BD_rbp}$ cam_RR_B_rbp	
59	ca_binding_to_cam_RR_B_rbp_on_site_D	ca binding to cam_RR_B_rbp on site D	ca+cam_RR_B_rbp $\xrightleftharpoons{ca, cam_RR_B_rbp, cam_RR_BD_rbp}$ cam_RR_B_rbp	
60	tbp_binding_to_cam_RR_BD_0	tbp binding to cam_RR_BD_0	tbp+cam_RR_BD_0 $\xrightleftharpoons{tbp, cam_RR_BD_0, cam_RR_BD_tbp}$ cam_RR_BD_tbp	
61	ca_binding_to_cam_RR_D_tbp_on_site_B	ca binding to cam_RR_D_tbp on site B	ca+cam_RR_D_tbp $\xrightleftharpoons{ca, cam_RR_D_tbp, cam_RR_BD_tbp}$ cam_RR_BD_tbp	
62	ca_binding_to_cam_RR_B_tbp_on_site_D	ca binding to cam_RR_B_tbp on site D	ca+cam_RR_B_tbp $\xrightleftharpoons{ca, cam_RR_B_tbp, cam_RR_BD_tbp}$ cam_RR_BD_tbp	
63	ca_binding_to_cam_RR_D_0_on_site_C	ca binding to cam_RR_D_0 on site C	ca+cam_RR_D_0 $\xrightleftharpoons{ca, cam_RR_D_0, cam_RR_CD_0}$ cam_RR_CD_0	
64	ca_binding_to_cam_RR_C_0_on_site_D	ca binding to cam_RR_C_0 on site D	ca+cam_RR_C_0 $\xrightleftharpoons{ca, cam_RR_C_0, cam_RR_CD_0}$ cam_RR_CD_0	
65	rbp_binding_to_cam_RR_CD_0	rbp binding to cam_RR_CD_0	rbp+cam_RR_CD_0 $\xrightleftharpoons{rbp, cam_RR_CD_0, cam_RR_CD_rbp}$ cam_RR_CD_rbp	

Nº	Id	Name	Reaction Equation	SBO
66	ca_binding_to_cam_RR_D_rbp_on_site_C	ca binding to cam_RR_D_rbp on site C	ca+cam_RR_D_rbp $\xrightleftharpoons{ca, cam_RR_D_rbp, cam_RR_CD_rbp}$ cam_RR_CD_rbp	
67	ca_binding_to_cam_RR_C_rbp_on_site_D	ca binding to cam_RR_C_rbp on site D	ca+cam_RR_C_rbp $\xrightleftharpoons{ca, cam_RR_C_rbp, cam_RR_CD_rbp}$ cam_RR_CD_rbp	
68	tbp_binding_to_cam_RR_CD_0	tbp binding to cam_RR_CD_0	tbp+cam_RR_CD_0 $\xrightleftharpoons{tbp, cam_RR_CD_0, cam_RR_CD_tbp}$ cam_RR_CD_tbp	
69	ca_binding_to_cam_RR_D_tbp_on_site_C	ca binding to cam_RR_D_tbp on site C	ca+cam_RR_D_tbp $\xrightleftharpoons{ca, cam_RR_D_tbp, cam_RR_CD_tbp}$ cam_RR_CD_tbp	
70	ca_binding_to_cam_RR_C_tbp_on_site_D	ca binding to cam_RR_C_tbp on site D	ca+cam_RR_C_tbp $\xrightleftharpoons{ca, cam_RR_C_tbp, cam_RR_CD_tbp}$ cam_RR_CD_tbp	
71	ca_binding_to_cam_RR_BC_0_on_site_A	ca binding to cam_RR_BC_0 on site A	ca+cam_RR_BC_0 $\xrightleftharpoons{ca, cam_RR_BC_0, cam_RR_ABC_0}$ cam_RR_ABC_0	
72	ca_binding_to_cam_RR_AC_0_on_site_B	ca binding to cam_RR_AC_0 on site B	ca+cam_RR_AC_0 $\xrightleftharpoons{ca, cam_RR_AC_0, cam_RR_ABC_0}$ cam_RR_ABC_0	
73	ca_binding_to_cam_RR_AB_0_on_site_C	ca binding to cam_RR_AB_0 on site C	ca+cam_RR_AB_0 $\xrightleftharpoons{ca, cam_RR_AB_0, cam_RR_ABC_0}$ cam_RR_ABC_0	

Nº	Id	Name	Reaction Equation	SBO
74	rpb_binding_to_cam_RR_ABC_0	rpb binding to cam_RR_ABC_0	$rpb + \text{cam_RR_ABC_0} \xrightleftharpoons{\text{rpb, cam_RR_ABC_0, cam_RR_ABC_rbp}} \text{cam_RR_ABC_rbp}$	
75	ca_binding_to_cam_RR_BC_rbp_on_site_A	ca binding to cam_RR_BC_rbp on site A	$\text{ca} + \text{cam_RR_BC_rbp} \xrightleftharpoons{\text{ca, cam_RR_BC_rbp, cam_RR_ABC_rbp}} \text{cam_RR_ABC_rbp}$	
76	ca_binding_to_cam_RR_AC_rbp_on_site_B	ca binding to cam_RR_AC_rbp on site B	$\text{ca} + \text{cam_RR_AC_rbp} \xrightleftharpoons{\text{ca, cam_RR_AC_rbp, cam_RR_ABC_rbp}} \text{cam_RR_ABC_rbp}$	
77	ca_binding_to_cam_RR_AB_rbp_on_site_C	ca binding to cam_RR_AB_rbp on site C	$\text{ca} + \text{cam_RR_AB_rbp} \xrightleftharpoons{\text{ca, cam_RR_AB_rbp, cam_RR_ABC_rbp}} \text{cam_RR_ABC_rbp}$	
78	tbp_binding_to_cam_RR_ABC_0	tbp binding to cam_RR_ABC_0	$\text{tbp} + \text{cam_RR_ABC_0} \xrightleftharpoons{\text{tbp, cam_RR_ABC_0, cam_RR_ABC_tbp}} \text{cam_RR_ABC_tbp}$	
79	ca_binding_to_cam_RR_BC_tbp_on_site_A	ca binding to cam_RR_BC_tbp on site A	$\text{ca} + \text{cam_RR_BC_tbp} \xrightleftharpoons{\text{ca, cam_RR_BC_tbp, cam_RR_ABC_tbp}} \text{cam_RR_ABC_tbp}$	
80	ca_binding_to_cam_RR_AC_tbp_on_site_B	ca binding to cam_RR_AC_tbp on site B	$\text{ca} + \text{cam_RR_AC_tbp} \xrightleftharpoons{\text{ca, cam_RR_AC_tbp, cam_RR_ABC_tbp}} \text{cam_RR_ABC_tbp}$	
81	ca_binding_to_cam_RR_AB_tbp_on_site_C	ca binding to cam_RR_AB_tbp on site C	$\text{ca} + \text{cam_RR_AB_tbp} \xrightleftharpoons{\text{ca, cam_RR_AB_tbp, cam_RR_ABC_tbp}} \text{cam_RR_ABC_tbp}$	

Nº	Id	Name	Reaction Equation	SBO
82	ca_binding_to_cam_RR_BD_0_on_site_A	ca binding to cam.RR.BD_0 on site A	$ca + cam.RR.BD_0 \xrightleftharpoons{ca, cam.RR.BD_0, cam.RR.ABD_0} cam.RR.ABD_0$	
83	ca_binding_to_cam_RR_AD_0_on_site_B	ca binding to cam.RR.AD_0 on site B	$ca + cam.RR.AD_0 \xrightleftharpoons{ca, cam.RR.AD_0, cam.RR.ABD_0} cam.RR.ABD_0$	
84	ca_binding_to_cam_RR_AB_0_on_site_D	ca binding to cam.RR.AB_0 on site D	$ca + cam.RR.AB_0 \xrightleftharpoons{ca, cam.RR.AB_0, cam.RR.ABD_0} cam.RR.ABD_0$	
85	rpb_binding_to_cam_RR_ABD_0	rpb binding to cam.RR.ABD_0	$rpb + cam.RR.ABD_0 \xrightleftharpoons{rpb, cam.RR.ABD_0, cam.RR.ABD_rpb} cam.RR.ABD_rpb$	
86	ca_binding_to_cam_RR_BD_rpb_on_site_A	ca binding to cam.RR.BD_rpb on site A	$ca + cam.RR.BD_rpb \xrightleftharpoons{ca, cam.RR.BD_rpb, cam.RR.ABD_rpb} cam.RR.ABD_rpb$	
87	ca_binding_to_cam_RR_AD_rpb_on_site_B	ca binding to cam.RR.AD_rpb on site B	$ca + cam.RR.AD_rpb \xrightleftharpoons{ca, cam.RR.AD_rpb, cam.RR.ABD_rpb} cam.RR.ABD_rpb$	
88	ca_binding_to_cam_RR_AB_rpb_on_site_D	ca binding to cam.RR.AB_rpb on site D	$ca + cam.RR.AB_rpb \xrightleftharpoons{ca, cam.RR.AB_rpb, cam.RR.ABD_rpb} cam.RR.ABD_rpb$	
89	tbp_binding_to_cam_RR_ABD_0	tbp binding to cam.RR.ABD_0	$tbp + cam.RR.ABD_0 \xrightleftharpoons{tbp, cam.RR.ABD_0, cam.RR.ABD_tbp} cam.RR.ABD_tbp$	

Nº	Id	Name	Reaction Equation	SBO
90	ca_binding_to_cam_RR_BD_tbp_on_site_A	ca binding to cam_RR_BD_tbp on site A	ca + cam_RR_BD_tbp $\xrightleftharpoons{ca, cam_RR_BD_tbp, cam_RR_ABD_tbp}$ cam_RR_ABD_tbp	
91	ca_binding_to_cam_RR_AD_tbp_on_site_B	ca binding to cam_RR_AD_tbp on site B	ca + cam_RR_AD_tbp $\xrightleftharpoons{ca, cam_RR_AD_tbp, cam_RR_ABD_tbp}$ cam_RR_ABD_tbp	
92	ca_binding_to_cam_RR_AB_tbp_on_site_D	ca binding to cam_RR_AB_tbp on site D	ca + cam_RR_AB_tbp $\xrightleftharpoons{ca, cam_RR_AB_tbp, cam_RR_ABD_tbp}$ cam_RR_ABD_tbp	
93	ca_binding_to_cam_RR_CD_0_on_site_A	ca binding to cam_RR_CD_0 on site A	ca + cam_RR_CD_0 $\xrightleftharpoons{ca, cam_RR_CD_0, cam_RR_ACD_0}$ cam_RR_ACD_0	
94	ca_binding_to_cam_RR_AD_0_on_site_C	ca binding to cam_RR_AD_0 on site C	ca + cam_RR_AD_0 $\xrightleftharpoons{ca, cam_RR_AD_0, cam_RR_ACD_0}$ cam_RR_ACD_0	
95	ca_binding_to_cam_RR_AC_0_on_site_D	ca binding to cam_RR_AC_0 on site D	ca + cam_RR_AC_0 $\xrightleftharpoons{ca, cam_RR_AC_0, cam_RR_ACD_0}$ cam_RR_ACD_0	
96	rpb_binding_to_cam_RR_ACD_0	rpb binding to cam_RR_ACD_0	rpb + cam_RR_ACD_0 $\xrightleftharpoons{rbp, cam_RR_ACD_0, cam_RR_ACD_rbp}$ cam_RR_ACD_rbp	
97	ca_binding_to_cam_RR_CD_rbp_on_site_A	ca binding to cam_RR_CD_rbp on site A	ca + cam_RR_CD_rbp $\xrightleftharpoons{ca, cam_RR_CD_rbp, cam_RR_ACD_rbp}$ cam_RR_ACD_rbp	

Nº	Id	Name	Reaction Equation	SBO
98	ca_binding_to_cam_RR_AD_rbp_on_site_C	ca binding to cam_RR_AD_rbp on site C	ca + cam_RR_AD_rbp $\xrightleftharpoons{ca, cam_RR_AD_rbp, cam_RR_ACD_rbp}$ cam_RR_ACD_rbp	
99	ca_binding_to_cam_RR_AC_rbp_on_site_D	ca binding to cam_RR_AC_rbp on site D	ca + cam_RR_AC_rbp $\xrightleftharpoons{ca, cam_RR_AC_rbp, cam_RR_ACD_rbp}$ cam_RR_ACD_rbp	
100	tbp_binding_to_cam_RR_ACD_0	tbp binding to cam_RR_ACD_0	tbp + cam_RR_ACD_0 $\xrightleftharpoons{tbp, cam_RR_ACD_0, cam_RR_ACD_tbp}$ cam_RR_ACD_tbp	
101	ca_binding_to_cam_RR_CD_tbp_on_site_A	ca binding to cam_RR_CD_tbp on site A	ca + cam_RR_CD_tbp $\xrightleftharpoons{ca, cam_RR_CD_tbp, cam_RR_ACD_tbp}$ cam_RR_ACD_tbp	
102	ca_binding_to_cam_RR_AD_tbp_on_site_C	ca binding to cam_RR_AD_tbp on site C	ca + cam_RR_AD_tbp $\xrightleftharpoons{ca, cam_RR_AD_tbp, cam_RR_ACD_tbp}$ cam_RR_ACD_tbp	
103	ca_binding_to_cam_RR_AC_tbp_on_site_D	ca binding to cam_RR_AC_tbp on site D	ca + cam_RR_AC_tbp $\xrightleftharpoons{ca, cam_RR_AC_tbp, cam_RR_ACD_tbp}$ cam_RR_ACD_tbp	
104	ca_binding_to_cam_RR_CD_0_on_site_B	ca binding to cam_RR_CD_0 on site B	ca + cam_RR_CD_0 $\xrightleftharpoons{ca, cam_RR_CD_0, cam_RR_BCD_0}$ cam_RR_BCD_0	
105	ca_binding_to_cam_RR_BD_0_on_site_C	ca binding to cam_RR_BD_0 on site C	ca + cam_RR_BD_0 $\xrightleftharpoons{ca, cam_RR_BD_0, cam_RR_BCD_0}$ cam_RR_BCD_0	

Nº	Id	Name	Reaction Equation	SBO
106	ca_binding_to_cam_RR_BC_0_on_site_D	ca binding to cam.RR.BC.0 on site D	ca+cam.RR.BC.0 $\xrightleftharpoons{ca, cam.RR.BC.0, cam.RR.BCD.0}$	cam.RR.BCD.0
107	rpb_binding_to_cam_RR_BCD_0	rpb binding to cam.RR.BCD.0	rpb+cam.RR.BCD.0 $\xrightleftharpoons{rpb, cam.RR.BCD.0, cam.RR.BCD.rpb}$	cam.RR.BCD.rpb
108	ca_binding_to_cam_RR_CD_rbp_on_site_B	ca binding to cam.RR.CD.rpb on site B	ca+cam.RR.CD.rpb $\xrightleftharpoons{ca, cam.RR.CD.rpb, cam.RR.BCD.rpb}$	cam.RR.BCD.rpb
109	ca_binding_to_cam_RR_BD_rbp_on_site_C	ca binding to cam.RR.BD.rpb on site C	ca+cam.RR.BD.rpb $\xrightleftharpoons{ca, cam.RR.BD.rpb, cam.RR.BCD.rpb}$	cam.RR.BCD.rpb
110	ca_binding_to_cam_RR_BC_rbp_on_site_D	ca binding to cam.RR.BC.rpb on site D	ca+cam.RR.BC.rpb $\xrightleftharpoons{ca, cam.RR.BC.rpb, cam.RR.BCD.rpb}$	cam.RR.BCD.rpb
111	tbp_binding_to_cam_RR_BCD_0	tbp binding to cam.RR.BCD.0	tbp+cam.RR.BCD.0 $\xrightleftharpoons{tbp, cam.RR.BCD.0, cam.RR.BCD.tbp}$	cam.RR.BCD.tbp
112	ca_binding_to_cam_RR_CD_tbp_on_site_B	ca binding to cam.RR.CD.tpb on site B	ca+cam.RR.CD.tpb $\xrightleftharpoons{ca, cam.RR.CD.tpb, cam.RR.BCD.tpb}$	cam.RR.BCD.tpb
113	ca_binding_to_cam_RR_BD_tbp_on_site_C	ca binding to cam.RR.BD.tpb on site C	ca+cam.RR.BD.tpb $\xrightleftharpoons{ca, cam.RR.BD.tpb, cam.RR.BCD.tpb}$	cam.RR.BCD.tpb

Nº	Id	Name	Reaction Equation	SBO
114	ca_binding_to_cam_RR_BC_tbp_on_site_D	ca binding to cam_RR_BC_tbp on site D	ca + cam_RR_BC_tbp $\xrightleftharpoons{ca, cam_RR_BC_tbp, cam_RR_BCD_tbp}$ cam_RR_BCD_tbp	
115	ca_binding_to_cam_RR_BCD_0_on_site_A	ca binding to cam_RR_BCD_0 on site A	ca + cam_RR_BCD_0 $\xrightleftharpoons{ca, cam_RR_BCD_0, cam_RR_ABCD_0}$ cam_RR_ABCD_0	
116	ca_binding_to_cam_RR_ACD_0_on_site_B	ca binding to cam_RR_ACD_0 on site B	ca + cam_RR_ACD_0 $\xrightleftharpoons{ca, cam_RR_ACD_0, cam_RR_ABCD_0}$ cam_RR_ABCD_0	
117	ca_binding_to_cam_RR_ABD_0_on_site_C	ca binding to cam_RR_ABD_0 on site C	ca + cam_RR_ABD_0 $\xrightleftharpoons{ca, cam_RR_ABD_0, cam_RR_ABCD_0}$ cam_RR_ABCD_0	
118	ca_binding_to_cam_RR_ABC_0_on_site_D	ca binding to cam_RR_ABC_0 on site D	ca + cam_RR_ABC_0 $\xrightleftharpoons{ca, cam_RR_ABC_0, cam_RR_ABCD_0}$ cam_RR_ABCD_0	
119	rbp_binding_to_cam_RR_ABCD_0	rbp binding to cam_RR_ABCD_0	rbp + cam_RR_ABCD_0 $\xrightleftharpoons{rbp, cam_RR_ABCD_0, cam_RR_ABCD_rbp}$ cam_RR_ABCD_rbp	
120	ca_binding_to_cam_RR_BCD_rbp_on_site_A	ca binding to cam_RR_BCD_rbp on site A	ca + cam_RR_BCD_rbp $\xrightleftharpoons{ca, cam_RR_BCD_rbp, cam_RR_ABCD_rbp}$ cam_RR_ABCD_rbp	
121	ca_binding_to_cam_RR_ACD_rbp_on_site_B	ca binding to cam_RR_ACD_rbp on site B	ca + cam_RR_ACD_rbp $\xrightleftharpoons{ca, cam_RR_ACD_rbp, cam_RR_ABCD_rbp}$ cam_RR_ABCD_rbp	

Nº	Id	Name	Reaction Equation	SBO
122	ca_binding_to_cam_RR_ABD_rbp_on_site_C	ca binding to cam_RR_ABD_rbp on site C	ca + cam_RR_ABD_rbp $\xrightleftharpoons{ca, cam_RR_ABD_rbp, cam_RR_ABCD_rbp}$	cam_RR_ABCD
123	ca_binding_to_cam_RR_ABC_rbp_on_site_D	ca binding to cam_RR_ABC_rbp on site D	ca + cam_RR_ABC_rbp $\xrightleftharpoons{ca, cam_RR_ABC_rbp, cam_RR_ABCD_rbp}$	cam_RR_ABCD
124	tbp_binding_to_cam_RR_ABCD_0	tbp binding to cam_RR_ABCD_0	tbp + cam_RR_ABCD_0 $\xrightleftharpoons{tbp, cam_RR_ABCD_0, cam_RR_ABCD_tbp}$	cam_RR_ABCD
125	ca_binding_to_cam_RR_BCD_tbp_on_site_A	ca binding to cam_RR_BCD_tbp on site A	ca + cam_RR_BCD_tbp $\xrightleftharpoons{ca, cam_RR_BCD_tbp, cam_RR_ABCD_tbp}$	cam_RR_ABCD
126	ca_binding_to_cam_RR_ACD_tbp_on_site_B	ca binding to cam_RR_ACD_tbp on site B	ca + cam_RR_ACD_tbp $\xrightleftharpoons{ca, cam_RR_ACD_tbp, cam_RR_ABCD_tbp}$	cam_RR_ABCD
127	ca_binding_to_cam_RR_ABD_tbp_on_site_C	ca binding to cam_RR_ABD_tbp on site C	ca + cam_RR_ABD_tbp $\xrightleftharpoons{ca, cam_RR_ABD_tbp, cam_RR_ABCD_tbp}$	cam_RR_ABCD
128	ca_binding_to_cam_RR_ABC_tbp_on_site_D	ca binding to cam_RR_ABC_tbp on site D	ca + cam_RR_ABC_tbp $\xrightleftharpoons{ca, cam_RR_ABC_tbp, cam_RR_ABCD_tbp}$	cam_RR_ABCD
129	rpb_binding_to_cam_RT_0_0	rpb binding to cam_RT_0_0	rpb + cam_RT_0_0 $\xrightleftharpoons{rpb, cam_RT_0_0, cam_RT_0_rbp}$	cam_RT_0_rbp
130	tbp_binding_to_cam_RT_0_0	tbp binding to cam_RT_0_0	tbp + cam_RT_0_0 $\xrightleftharpoons{tbp, cam_RT_0_0, cam_RT_0_tbp}$	cam_RT_0_tbp

Nº	Id	Name	Reaction Equation	SBO
131	ca_binding_to_cam_RT_0_0_on_site_A	ca binding to cam.RT_0_0 on site A	$ca + cam.RT_0_0 \xrightleftharpoons{ca, cam.RT_0_0, cam.RT_A_0} cam.RT_A_0$	
132	rbp_binding_to_cam_RT_A_0	rbp binding to cam.RT_A_0	$rbp + cam.RT_A_0 \xrightleftharpoons{rbp, cam.RT_A_0, cam.RT_A_rbp} cam.RT_A_rbp$	
133	ca_binding_to_cam_RT_0_rbp_on_site_A	ca binding to cam.RT_0_rbp on site A	$ca + cam.RT_0_rbp \xrightleftharpoons{ca, cam.RT_0_rbp, cam.RT_A_rbp} cam.RT_A_rbp$	
134	tbp_binding_to_cam_RT_A_0	tbp binding to cam.RT_A_0	$tbp + cam.RT_A_0 \xrightleftharpoons{tbp, cam.RT_A_0, cam.RT_A_tbp} cam.RT_A_tbp$	
135	ca_binding_to_cam_RT_0_tbp_on_site_A	ca binding to cam.RT_0_tbp on site A	$ca + cam.RT_0_tbp \xrightleftharpoons{ca, cam.RT_0_tbp, cam.RT_A_tbp} cam.RT_A_tbp$	
136	ca_binding_to_cam_RT_0_0_on_site_B	ca binding to cam.RT_0_0 on site B	$ca + cam.RT_0_0 \xrightleftharpoons{ca, cam.RT_0_0, cam.RT_B_0} cam.RT_B_0$	
137	rbp_binding_to_cam_RT_B_0	rbp binding to cam.RT_B_0	$rbp + cam.RT_B_0 \xrightleftharpoons{rbp, cam.RT_B_0, cam.RT_B_rbp} cam.RT_B_rbp$	
138	ca_binding_to_cam_RT_0_rbp_on_site_B	ca binding to cam.RT_0_rbp on site B	$ca + cam.RT_0_rbp \xrightleftharpoons{ca, cam.RT_0_rbp, cam.RT_B_rbp} cam.RT_B_rbp$	
139	tbp_binding_to_cam_RT_B_0	tbp binding to cam.RT_B_0	$tbp + cam.RT_B_0 \xrightleftharpoons{tbp, cam.RT_B_0, cam.RT_B_tbp} cam.RT_B_tbp$	

Nº	Id	Name	Reaction Equation	SBO
140	ca_binding_to_cam_RT_0_tbp_on_site_B	ca binding to cam_RT_0_tbp on site B	ca + cam_RT_0_tbp $\xrightleftharpoons{ca, cam_RT_0_tbp, cam_RT_B_tbp}$ cam_RT_B_tbp	
141	ca_binding_to_cam_RT_0_0_on_site_C	ca binding to cam_RT_0_0 on site C	ca + cam_RT_0_0 $\xrightleftharpoons{ca, cam_RT_0_0, cam_RT_C_0}$ cam_RT_C_0	
142	rpb_binding_to_cam_RT_C_0	rpb binding to cam_RT_C_0	rpb + cam_RT_C_0 $\xrightleftharpoons{rpb, cam_RT_C_0, cam_RT_C_rpb}$ cam_RT_C_rpb	
143	ca_binding_to_cam_RT_0_rbp_on_site_C	ca binding to cam_RT_0_rbp on site C	ca + cam_RT_0_rbp $\xrightleftharpoons{ca, cam_RT_0_rbp, cam_RT_C_rbp}$ cam_RT_C_rbp	
144	tbp_binding_to_cam_RT_C_0	tbp binding to cam_RT_C_0	tbp + cam_RT_C_0 $\xrightleftharpoons{tbp, cam_RT_C_0, cam_RT_C_tbp}$ cam_RT_C_tbp	
145	ca_binding_to_cam_RT_0_tbp_on_site_C	ca binding to cam_RT_0_tbp on site C	ca + cam_RT_0_tbp $\xrightleftharpoons{ca, cam_RT_0_tbp, cam_RT_C_tbp}$ cam_RT_C_tbp	
146	ca_binding_to_cam_RT_0_0_on_site_D	ca binding to cam_RT_0_0 on site D	ca + cam_RT_0_0 $\xrightleftharpoons{ca, cam_RT_0_0, cam_RT_D_0}$ cam_RT_D_0	
147	rpb_binding_to_cam_RT_D_0	rpb binding to cam_RT_D_0	rpb + cam_RT_D_0 $\xrightleftharpoons{rpb, cam_RT_D_0, cam_RT_D_rpb}$ cam_RT_D_rpb	
148	ca_binding_to_cam_RT_0_rbp_on_site_D	ca binding to cam_RT_0_rbp on site D	ca + cam_RT_0_rbp $\xrightleftharpoons{ca, cam_RT_0_rbp, cam_RT_D_rbp}$ cam_RT_D_rpb	

Nº	Id	Name	Reaction Equation	SBO
149	tbp_binding_to_cam_RT_D_0	tbp binding to cam_RT.D_0	$tbp + cam_RT_D_0 \xrightleftharpoons{tbp, cam_RT_D_0, cam_RT_D_tbp} cam_RT_D_tbp$	
150	ca_binding_to_cam_RT_0_tbp_on_site_D	ca binding to cam.RT_0.tbp on site D	$ca + cam_RT_0_tbp \xrightleftharpoons{ca, cam_RT_0_tbp, cam_RT_D_tbp} cam_RT_D_tbp$	
151	ca_binding_to_cam_RT_B_0_on_site_A	ca binding to cam.RT.B_0 on site A	$ca + cam_RT_B_0 \xrightleftharpoons{ca, cam_RT_B_0, cam_RT_AB_0} cam_RT_AB_0$	
152	ca_binding_to_cam_RT_A_0_on_site_B	ca binding to cam.RT.A_0 on site B	$ca + cam_RT_A_0 \xrightleftharpoons{ca, cam_RT_A_0, cam_RT_AB_0} cam_RT_AB_0$	
153	rpb_binding_to_cam_RT_AB_0	rpb binding to cam.RT_AB_0	$rpb + cam_RT_AB_0 \xrightleftharpoons{rpb, cam_RT_AB_0, cam_RT_AB_rpb} cam_RT_AB_rpb$	
154	ca_binding_to_cam_RT_B_rpb_on_site_A	ca binding to cam.RT.B.rpb on site A	$ca + cam_RT_B_rpb \xrightleftharpoons{ca, cam_RT_B_rpb, cam_RT_AB_rpb} cam_RT_AB_rpb$	
155	ca_binding_to_cam_RT_A_rpb_on_site_B	ca binding to cam.RT.A.rpb on site B	$ca + cam_RT_A_rpb \xrightleftharpoons{ca, cam_RT_A_rpb, cam_RT_AB_rpb} cam_RT_AB_rpb$	
156	tbp_binding_to_cam_RT_AB_0	tbp binding to cam.RT_AB_0	$tbp + cam_RT_AB_0 \xrightleftharpoons{tbp, cam_RT_AB_0, cam_RT_AB_tbp} cam_RT_AB_tbp$	
157	ca_binding_to_cam_RT_B_tbp_on_site_A	ca binding to cam.RT.B.tbp on site A	$ca + cam_RT_B_tbp \xrightleftharpoons{ca, cam_RT_B_tbp, cam_RT_AB_tbp} cam_RT_AB_tbp$	

Nº	Id	Name	Reaction Equation	SBO
158	ca_binding_to_cam_RT_A_tbp_on_site_B	ca binding to cam_RT_A_tbp on site B	$ca + cam_RT_A_tbp \xrightleftharpoons{ca, cam_RT_A_tbp, cam_RT_AB_tbp} cam_RT_AB_tbp$	
159	ca_binding_to_cam_RT_C_0_on_site_A	ca binding to cam_RT_C_0 on site A	$ca + cam_RT_C_0 \xrightleftharpoons{ca, cam_RT_C_0, cam_RT_AC_0} cam_RT_AC_0$	
160	ca_binding_to_cam_RT_A_0_on_site_C	ca binding to cam_RT_A_0 on site C	$ca + cam_RT_A_0 \xrightleftharpoons{ca, cam_RT_A_0, cam_RT_AC_0} cam_RT_AC_0$	
161	rpb_binding_to_cam_RT_AC_0	rpb binding to cam_RT_AC_0	$rpb + cam_RT_AC_0 \xrightleftharpoons{rpb, cam_RT_AC_0, cam_RT_AC_rpb} cam_RT_AC_rpb$	
162	ca_binding_to_cam_RT_C_rbp_on_site_A	ca binding to cam_RT_C_rbp on site A	$ca + cam_RT_C_rpb \xrightleftharpoons{ca, cam_RT_C_rpb, cam_RT_AC_rpb} cam_RT_AC_rpb$	
163	ca_binding_to_cam_RT_A_rbp_on_site_C	ca binding to cam_RT_A_rbp on site C	$ca + cam_RT_A_rpb \xrightleftharpoons{ca, cam_RT_A_rpb, cam_RT_AC_rpb} cam_RT_AC_rpb$	
164	tbp_binding_to_cam_RT_AC_0	tbp binding to cam_RT_AC_0	$tbp + cam_RT_AC_0 \xrightleftharpoons{tbp, cam_RT_AC_0, cam_RT_AC_tbp} cam_RT_AC_tbp$	
165	ca_binding_to_cam_RT_C_tbp_on_site_A	ca binding to cam_RT_C_tbp on site A	$ca + cam_RT_C_tbp \xrightleftharpoons{ca, cam_RT_C_tbp, cam_RT_AC_tbp} cam_RT_AC_tbp$	

Nº	Id	Name	Reaction Equation	SBO
166	ca_binding_to_cam_RT_A_tbp_on_site_C	ca binding to cam_RT_A_tbp on site C	ca + cam_RT_A_tbp $\xrightleftharpoons{ca, cam_RT_A_tbp, cam_RT_AC_tbp}$ cam_RT_AC_tbp	
167	ca_binding_to_cam_RT_D_0_on_site_A	ca binding to cam_RT_D_0 on site A	ca + cam_RT_D_0 $\xrightleftharpoons{ca, cam_RT_D_0, cam_RT_AD_0}$ cam_RT_AD_0	
168	ca_binding_to_cam_RT_A_0_on_site_D	ca binding to cam_RT_A_0 on site D	ca + cam_RT_A_0 $\xrightleftharpoons{ca, cam_RT_A_0, cam_RT_AD_0}$ cam_RT_AD_0	
169	rpb_binding_to_cam_RT_AD_0	rpb binding to cam_RT_AD_0	rpb + cam_RT_AD_0 $\xrightleftharpoons{rpb, cam_RT_AD_0, cam_RT_AD_rpb}$ cam_RT_AD_rpb	
170	ca_binding_to_cam_RT_D_rpb_on_site_A	ca binding to cam_RT_D_rpb on site A	ca + cam_RT_D_rpb $\xrightleftharpoons{ca, cam_RT_D_rpb, cam_RT_AD_rpb}$ cam_RT_AD_rpb	
171	ca_binding_to_cam_RT_A_rpb_on_site_D	ca binding to cam_RT_A_rpb on site D	ca + cam_RT_A_rpb $\xrightleftharpoons{ca, cam_RT_A_rpb, cam_RT_AD_rpb}$ cam_RT_AD_rpb	
172	tbp_binding_to_cam_RT_AD_0	tbp binding to cam_RT_AD_0	tbp + cam_RT_AD_0 $\xrightleftharpoons{tbp, cam_RT_AD_0, cam_RT_AD_tbp}$ cam_RT_AD_tbp	
173	ca_binding_to_cam_RT_D_tbp_on_site_A	ca binding to cam_RT_D_tbp on site A	ca + cam_RT_D_tbp $\xrightleftharpoons{ca, cam_RT_D_tbp, cam_RT_AD_tbp}$ cam_RT_AD_tbp	

Nº	Id	Name	Reaction Equation	SBO
174	ca_binding_to_cam_RT_A_tbp_on_site_D	ca binding to cam_RT_A_tbp on site D	ca + cam_RT_A_tbp $\xrightleftharpoons{ca, cam_RT_A_tbp, cam_RT_AD_tbp}$ cam_RT_AD_tbp	
175	ca_binding_to_cam_RT_C_0_on_site_B	ca binding to cam_RT_C_0 on site B	ca + cam_RT_C_0 $\xrightleftharpoons{ca, cam_RT_C_0, cam_RT_BC_0}$ cam_RT_BC_0	
176	ca_binding_to_cam_RT_B_0_on_site_C	ca binding to cam_RT_B_0 on site C	ca + cam_RT_B_0 $\xrightleftharpoons{ca, cam_RT_B_0, cam_RT_BC_0}$ cam_RT_BC_0	
177	rpb_binding_to_cam_RT_BC_0	rpb binding to cam_RT_BC_0	rpb + cam_RT_BC_0 $\xrightleftharpoons{rpb, cam_RT_BC_0, cam_RT_BC_rpb}$ cam_RT_BC_rpb	
178	ca_binding_to_cam_RT_C_rbp_on_site_B	ca binding to cam_RT_C_rbp on site B	ca + cam_RT_C_rbp $\xrightleftharpoons{ca, cam_RT_C_rpb, cam_RT_BC_rpb}$ cam_RT_BC_rpb	
179	ca_binding_to_cam_RT_B_rbp_on_site_C	ca binding to cam_RT_B_rbp on site C	ca + cam_RT_B_rbp $\xrightleftharpoons{ca, cam_RT_B_rpb, cam_RT_BC_rpb}$ cam_RT_BC_rpb	
180	tbp_binding_to_cam_RT_BC_0	tbp binding to cam_RT_BC_0	tbp + cam_RT_BC_0 $\xrightleftharpoons{tbp, cam_RT_BC_0, cam_RT_BC_tbp}$ cam_RT_BC_tbp	
181	ca_binding_to_cam_RT_C_tbp_on_site_B	ca binding to cam_RT_C_tbp on site B	ca + cam_RT_C_tbp $\xrightleftharpoons{ca, cam_RT_C_tbp, cam_RT_BC_tbp}$ cam_RT_BC_tbp	

Nº	Id	Name	Reaction Equation	SBO
182	ca_binding_to_cam_RT_B_tbp_on_site_C	ca binding to cam_RT_B_tbp on site C	ca + cam_RT_B_tbp $\xrightleftharpoons{ca, cam_RT_B_tbp, cam_RT_BC_tbp}$ cam_RT_BC_tbp	
183	ca_binding_to_cam_RT_D_0_on_site_B	ca binding to cam_RT_D_0 on site B	ca + cam_RT_D_0 $\xrightleftharpoons{ca, cam_RT_D_0, cam_RT_BD_0}$ cam_RT_BD_0	
184	ca_binding_to_cam_RT_B_0_on_site_D	ca binding to cam_RT_B_0 on site D	ca + cam_RT_B_0 $\xrightleftharpoons{ca, cam_RT_B_0, cam_RT_BD_0}$ cam_RT_BD_0	
185	rpb_binding_to_cam_RT_BD_0	rpb binding to cam_RT_BD_0	rpb + cam_RT_BD_0 $\xrightleftharpoons{rpb, cam_RT_BD_0, cam_RT_BD_rpb}$ cam_RT_BD_rpb	
186	ca_binding_to_cam_RT_D_rbp_on_site_B	ca binding to cam_RT_D_rbp on site B	ca + cam_RT_D_rpb $\xrightleftharpoons{ca, cam_RT_D_rpb, cam_RT_BD_rpb}$ cam_RT_BD_rpb	
187	ca_binding_to_cam_RT_B_rbp_on_site_D	ca binding to cam_RT_B_rbp on site D	ca + cam_RT_B_rpb $\xrightleftharpoons{ca, cam_RT_B_rpb, cam_RT_BD_rpb}$ cam_RT_BD_rpb	
188	tbp_binding_to_cam_RT_BD_0	tbp binding to cam_RT_BD_0	tbp + cam_RT_BD_0 $\xrightleftharpoons{tbp, cam_RT_BD_0, cam_RT_BD_tbp}$ cam_RT_BD_tbp	
189	ca_binding_to_cam_RT_D_tbp_on_site_B	ca binding to cam_RT_D_tbp on site B	ca + cam_RT_D_tbp $\xrightleftharpoons{ca, cam_RT_D_tbp, cam_RT_BD_tbp}$ cam_RT_BD_tbp	

Nº	Id	Name	Reaction Equation	SBO
190	ca_binding_to_cam_RT_B_tbp_on_site_D	ca binding to cam_RT_B_tbp on site D	ca + cam_RT_B_tbp $\xrightleftharpoons{ca, cam_RT_B_tbp, cam_RT_BD_tbp}$ cam_RT_BD_tbp	
191	ca_binding_to_cam_RT_D_0_on_site_C	ca binding to cam_RT_D_0 on site C	ca + cam_RT_D_0 $\xrightleftharpoons{ca, cam_RT_D_0, cam_RT_CD_0}$ cam_RT_CD_0	
192	ca_binding_to_cam_RT_C_0_on_site_D	ca binding to cam_RT_C_0 on site D	ca + cam_RT_C_0 $\xrightleftharpoons{ca, cam_RT_C_0, cam_RT_CD_0}$ cam_RT_CD_0	
193	rpb_binding_to_cam_RT_CD_0	rpb binding to cam_RT_CD_0	rpb + cam_RT_CD_0 $\xrightleftharpoons{rpb, cam_RT_CD_0, cam_RT_CD_rpb}$ cam_RT_CD_rpb	
194	ca_binding_to_cam_RT_D_rbp_on_site_C	ca binding to cam_RT_D_rbp on site C	ca + cam_RT_D_rbp $\xrightleftharpoons{ca, cam_RT_D_rpb, cam_RT_CD_rpb}$ cam_RT_CD_rpb	
195	ca_binding_to_cam_RT_C_rbp_on_site_D	ca binding to cam_RT_C_rbp on site D	ca + cam_RT_C_rbp $\xrightleftharpoons{ca, cam_RT_C_rpb, cam_RT_CD_rpb}$ cam_RT_CD_rpb	
196	tbp_binding_to_cam_RT_CD_0	tbp binding to cam_RT_CD_0	tbp + cam_RT_CD_0 $\xrightleftharpoons{tbp, cam_RT_CD_0, cam_RT_CD_tbp}$ cam_RT_CD_tbp	
197	ca_binding_to_cam_RT_D_tbp_on_site_C	ca binding to cam_RT_D_tbp on site C	ca + cam_RT_D_tbp $\xrightleftharpoons{ca, cam_RT_D_tbp, cam_RT_CD_tbp}$ cam_RT_CD_tbp	

Nº	Id	Name	Reaction Equation	SBO
198	ca_binding_to_cam_RT_C_tbp_on_site_D	ca binding to cam_RT_C_tbp on site D	ca + cam_RT_C_tbp $\xrightleftharpoons{ca, cam_RT_C_tbp, cam_RT_CD_tbp}$ cam_RT_CD_tbp	
199	ca_binding_to_cam_RT_BC_0_on_site_A	ca binding to cam_RT_BC_0 on site A	ca + cam_RT_BC_0 $\xrightleftharpoons{ca, cam_RT_BC_0, cam_RT_ABC_0}$ cam_RT_ABC_0	
200	ca_binding_to_cam_RT_AC_0_on_site_B	ca binding to cam_RT_AC_0 on site B	ca + cam_RT_AC_0 $\xrightleftharpoons{ca, cam_RT_AC_0, cam_RT_ABC_0}$ cam_RT_ABC_0	
201	ca_binding_to_cam_RT_AB_0_on_site_C	ca binding to cam_RT_AB_0 on site C	ca + cam_RT_AB_0 $\xrightleftharpoons{ca, cam_RT_AB_0, cam_RT_ABC_0}$ cam_RT_ABC_0	
202	rbp_binding_to_cam_RT_ABC_0	rbp binding to cam_RT_ABC_0	rbp + cam_RT_ABC_0 $\xrightleftharpoons{rbp, cam_RT_ABC_0, cam_RT_ABC_rbp}$ cam_RT_ABC_rbp	
203	ca_binding_to_cam_RT_BC_rbp_on_site_A	ca binding to cam_RT_BC_rbp on site A	ca + cam_RT_BC_rbp $\xrightleftharpoons{ca, cam_RT_BC_rbp, cam_RT_ABC_rbp}$ cam_RT_ABC_rbp	
204	ca_binding_to_cam_RT_AC_rbp_on_site_B	ca binding to cam_RT_AC_rbp on site B	ca + cam_RT_AC_rbp $\xrightleftharpoons{ca, cam_RT_AC_rbp, cam_RT_ABC_rbp}$ cam_RT_ABC_rbp	
205	ca_binding_to_cam_RT_AB_rbp_on_site_C	ca binding to cam_RT_AB_rbp on site C	ca + cam_RT_AB_rbp $\xrightleftharpoons{ca, cam_RT_AB_rbp, cam_RT_ABC_rbp}$ cam_RT_ABC_rbp	

Nº	Id	Name	Reaction Equation	SBO
206	tbp_binding_to_cam_RT_ABC_0	tbp binding to cam_RT_ABC_0	$tbp + cam_RT_ABC_0 \xrightleftharpoons{tbp, cam_RT_ABC_0, cam_RT_ABC_tbp} cam_RT_ABC_tbp$	
207	ca_binding_to_cam_RT_BC_tbp_on_site_A	ca binding to cam_RT_BC_tbp on site A	$ca + cam_RT_BC_tbp \xrightleftharpoons{ca, cam_RT_BC_tbp, cam_RT_ABC_tbp} cam_RT_ABC_tbp$	
208	ca_binding_to_cam_RT_AC_tbp_on_site_B	ca binding to cam_RT_AC_tbp on site B	$ca + cam_RT_AC_tbp \xrightleftharpoons{ca, cam_RT_AC_tbp, cam_RT_ABC_tbp} cam_RT_ABC_tbp$	
209	ca_binding_to_cam_RT_AB_tbp_on_site_C	ca binding to cam_RT_AB_tbp on site C	$ca + cam_RT_AB_tbp \xrightleftharpoons{ca, cam_RT_AB_tbp, cam_RT_ABC_tbp} cam_RT_ABC_tbp$	
210	ca_binding_to_cam_RT_BD_0_on_site_A	ca binding to cam_RT_BD_0 on site A	$ca + cam_RT_BD_0 \xrightleftharpoons{ca, cam_RT_BD_0, cam_RT_ABD_0} cam_RT_ABD_0$	
211	ca_binding_to_cam_RT_AD_0_on_site_B	ca binding to cam_RT_AD_0 on site B	$ca + cam_RT_AD_0 \xrightleftharpoons{ca, cam_RT_AD_0, cam_RT_ABD_0} cam_RT_ABD_0$	
212	ca_binding_to_cam_RT_AB_0_on_site_D	ca binding to cam_RT_AB_0 on site D	$ca + cam_RT_AB_0 \xrightleftharpoons{ca, cam_RT_AB_0, cam_RT_ABD_0} cam_RT_ABD_0$	
213	rpb_binding_to_cam_RT_ABD_0	rpb binding to cam_RT_ABD_0	$rpb + cam_RT_ABD_0 \xrightleftharpoons{rpb, cam_RT_ABD_0, cam_RT_ABD_rpb} cam_RT_ABD_rpb$	

Nº	Id	Name	Reaction Equation	SBO
214	ca_binding_to_cam_RT_BD_rbp_on_site_A	ca binding to cam_RT_BD_rbp on site A	ca + cam_RT_BD_rbp $\xrightleftharpoons{ca, cam_RT_BD_rbp, cam_RT_ABD_rbp}$ cam_RT_ABD_rbp	
215	ca_binding_to_cam_RT_AD_rbp_on_site_B	ca binding to cam_RT_AD_rbp on site B	ca + cam_RT_AD_rbp $\xrightleftharpoons{ca, cam_RT_AD_rbp, cam_RT_ABD_rbp}$ cam_RT_ABD_rbp	
216	ca_binding_to_cam_RT_AB_rbp_on_site_D	ca binding to cam_RT_AB_rbp on site D	ca + cam_RT_AB_rbp $\xrightleftharpoons{ca, cam_RT_AB_rbp, cam_RT_ABD_rbp}$ cam_RT_ABD_rbp	
217	tbp_binding_to_cam_RT_ABD_0	tbp binding to cam_RT_ABD_0	tbp + cam_RT_ABD_0 $\xrightleftharpoons{tbp, cam_RT_ABD_0, cam_RT_ABD_tbp}$ cam_RT_ABD_tbp	
218	ca_binding_to_cam_RT_BD_tbp_on_site_A	ca binding to cam_RT_BD_tbp on site A	ca + cam_RT_BD_tbp $\xrightleftharpoons{ca, cam_RT_BD_tbp, cam_RT_ABD_tbp}$ cam_RT_ABD_tbp	
219	ca_binding_to_cam_RT_AD_tbp_on_site_B	ca binding to cam_RT_AD_tbp on site B	ca + cam_RT_AD_tbp $\xrightleftharpoons{ca, cam_RT_AD_tbp, cam_RT_ABD_tbp}$ cam_RT_ABD_tbp	
220	ca_binding_to_cam_RT_AB_tbp_on_site_D	ca binding to cam_RT_AB_tbp on site D	ca + cam_RT_AB_tbp $\xrightleftharpoons{ca, cam_RT_AB_tbp, cam_RT_ABD_tbp}$ cam_RT_ABD_tbp	
221	ca_binding_to_cam_RT_CD_0_on_site_A	ca binding to cam_RT_CD_0 on site A	ca + cam_RT_CD_0 $\xrightleftharpoons{ca, cam_RT_CD_0, cam_RT_ACD_0}$ cam_RT_ACD_0	

Nº	Id	Name	Reaction Equation	SBO
222	ca_binding_to_cam_RT_AD_0_on_site_C	ca binding to cam.RT.AD_0 on site C	ca+cam.RT.AD_0 $\xrightleftharpoons{ca, cam.RT.AC_0, cam.RT.ACD_0}$	cam.RT.ACD_0
223	ca_binding_to_cam_RT_AC_0_on_site_D	ca binding to cam.RT.AC_0 on site D	ca+cam.RT.AC_0 $\xrightleftharpoons{ca, cam.RT.AC_0, cam.RT.ACD_0}$	cam.RT.ACD_0
224	rpb_binding_to_cam_RT_ACD_0	rpb binding to cam.RT.ACD_0	rpb+cam.RT.ACD_0 $\xrightleftharpoons{rpb, cam.RT.ACD_0, cam.RT.ACD_rpb}$	cam.RT.ACD_rpb
225	ca_binding_to_cam_RT_CD_rpb_on_site_A	ca binding to cam.RT.CD_rpb on site A	ca+cam.RT.CD_rpb $\xrightleftharpoons{ca, cam.RT.CD_rpb, cam.RT.ACD_rpb}$	cam.RT.ACD_rpb
226	ca_binding_to_cam_RT_AD_rpb_on_site_C	ca binding to cam.RT.AD_rpb on site C	ca+cam.RT.AD_rpb $\xrightleftharpoons{ca, cam.RT.AD_rpb, cam.RT.ACD_rpb}$	cam.RT.ACD_rpb
227	ca_binding_to_cam_RT_AC_rpb_on_site_D	ca binding to cam.RT.AC_rpb on site D	ca+cam.RT.AC_rpb $\xrightleftharpoons{ca, cam.RT.AC_rpb, cam.RT.ACD_rpb}$	cam.RT.ACD_rpb
228	tbp_binding_to_cam_RT_ACD_0	tbp binding to cam.RT.ACD_0	tbp+cam.RT.ACD_0 $\xrightleftharpoons{tbp, cam.RT.ACD_0, cam.RT.ACD_tbp}$	cam.RT.ACD_tbp
229	ca_binding_to_cam_RT_CD_tbp_on_site_A	ca binding to cam.RT.CD_tbp on site A	ca+cam.RT.CD_tbp $\xrightleftharpoons{ca, cam.RT.CD_tbp, cam.RT.ACD_tbp}$	cam.RT.ACD_tbp

Nº	Id	Name	Reaction Equation	SBO
230	ca_binding_to_cam_RT_AD_tbp_on_site_C	ca binding to cam_RT_AD_tbp on site C	ca + cam_RT_AD_tbp $\xrightleftharpoons{ca, cam_RT_AD_tbp, cam_RT_ACD_tbp}$ cam_RT_ACD_tbp	
231	ca_binding_to_cam_RT_AC_tbp_on_site_D	ca binding to cam_RT_AC_tbp on site D	ca + cam_RT_AC_tbp $\xrightleftharpoons{ca, cam_RT_AC_tbp, cam_RT_ACD_tbp}$ cam_RT_ACD_tbp	
232	ca_binding_to_cam_RT_CD_0_on_site_B	ca binding to cam_RT_CD_0 on site B	ca + cam_RT_CD_0 $\xrightleftharpoons{ca, cam_RT_CD_0, cam_RT_BCD_0}$ cam_RT_BCD_0	
233	ca_binding_to_cam_RT_BD_0_on_site_C	ca binding to cam_RT_BD_0 on site C	ca + cam_RT_BD_0 $\xrightleftharpoons{ca, cam_RT_BD_0, cam_RT_BCD_0}$ cam_RT_BCD_0	
234	ca_binding_to_cam_RT_BC_0_on_site_D	ca binding to cam_RT_BC_0 on site D	ca + cam_RT_BC_0 $\xrightleftharpoons{ca, cam_RT_BC_0, cam_RT_BCD_0}$ cam_RT_BCD_0	
235	rbp_binding_to_cam_RT_BCD_0	rbp binding to cam_RT_BCD_0	rbp + cam_RT_BCD_0 $\xrightleftharpoons{rbp, cam_RT_BCD_0, cam_RT_BCD_rbp}$ cam_RT_BCD_rbp	
236	ca_binding_to_cam_RT_CD_rbp_on_site_B	ca binding to cam_RT_CD_rbp on site B	ca + cam_RT_CD_rbp $\xrightleftharpoons{ca, cam_RT_CD_rbp, cam_RT_BCD_rbp}$ cam_RT_BCD_rbp	
237	ca_binding_to_cam_RT_BD_rbp_on_site_C	ca binding to cam_RT_BD_rbp on site C	ca + cam_RT_BD_rbp $\xrightleftharpoons{ca, cam_RT_BD_rbp, cam_RT_BCD_rbp}$ cam_RT_BCD_rbp	

Nº	Id	Name	Reaction Equation	SBO
238	ca_binding_to_cam_RT_BC_rbp_on_site_D	ca binding to cam_RT_BC_rbp on site D	ca+cam_RT_BC_rbp $\xrightleftharpoons{ca, cam_RT_BC_rbp, cam_RT_BCD_rbp}$	cam_RT_BCD_rbp
239	tbp_binding_to_cam_RT_BCD_0	tbp binding to cam_RT_BCD_0	tbp+cam_RT_BCD_0 $\xrightleftharpoons{tbp, cam_RT_BCD_0, cam_RT_BCD_tbp}$	cam_RT_BCD_tbp
240	ca_binding_to_cam_RT_CD_tbp_on_site_B	ca binding to cam_RT_CD_tbp on site B	ca+cam_RT_CD_tbp $\xrightleftharpoons{ca, cam_RT_CD_tbp, cam_RT_BCD_tbp}$	cam_RT_BCD_tbp
241	ca_binding_to_cam_RT_BD_tbp_on_site_C	ca binding to cam_RT_BD_tbp on site C	ca+cam_RT_BD_tbp $\xrightleftharpoons{ca, cam_RT_BD_tbp, cam_RT_BCD_tbp}$	cam_RT_BCD_tbp
242	ca_binding_to_cam_RT_BC_tbp_on_site_D	ca binding to cam_RT_BC_tbp on site D	ca+cam_RT_BC_tbp $\xrightleftharpoons{ca, cam_RT_BC_tbp, cam_RT_BCD_tbp}$	cam_RT_BCD_tbp
243	ca_binding_to_cam_RT_BCD_0_on_site_A	ca binding to cam_RT_BCD_0 on site A	ca+cam_RT_BCD_0 $\xrightleftharpoons{ca, cam_RT_BCD_0, cam_RT_ABCD_0}$	cam_RT_ABCD_0
244	ca_binding_to_cam_RT_ACD_0_on_site_B	ca binding to cam_RT_ACD_0 on site B	ca+cam_RT_ACD_0 $\xrightleftharpoons{ca, cam_RT_ACD_0, cam_RT_ABCD_0}$	cam_RT_ABCD_0
245	ca_binding_to_cam_RT_ABD_0_on_site_C	ca binding to cam_RT_ABD_0 on site C	ca+cam_RT_ABD_0 $\xrightleftharpoons{ca, cam_RT_ABD_0, cam_RT_ABCD_0}$	cam_RT_ABCD_0

Nº	Id	Name	Reaction Equation	SBO
246	ca_binding_to_cam_RT_ABC_0_on_site_D	ca binding to cam.RT_ABC_0 on site D	ca+cam.RT_ABC_0 $\xrightleftharpoons{ca, cam.RT_ABC_0, cam.RT_ABCD_0}$ cam.RT_ABCD_0	
247	rpb_binding_to_cam_RT_ABCD_0	rpb binding to cam.RT_ABCD_0	rpb+cam.RT_ABCD_0 $\xrightleftharpoons{rpb, cam.RT_ABCD_0, cam.RT_ABCD_rpb}$ cam.RT_ABCD_rpb	
248	ca_binding_to_cam_RT_BCD_rpb_on_site_A	ca binding to cam.RT_BCD_rpb on site A	ca+cam.RT_BCD_rpb $\xrightleftharpoons{ca, cam.RT_BCD_rpb, cam.RT_ABCD_rpb}$ cam.RT_ABCD_rpb	
249	ca_binding_to_cam_RT_ACD_rpb_on_site_B	ca binding to cam.RT_ACD_rpb on site B	ca+cam.RT_ACD_rpb $\xrightleftharpoons{ca, cam.RT_ACD_rpb, cam.RT_ABCD_rpb}$ cam.RT_ABCD_rpb	
250	ca_binding_to_cam_RT_ABD_rpb_on_site_C	ca binding to cam.RT_ABD_rpb on site C	ca+cam.RT_ABD_rpb $\xrightleftharpoons{ca, cam.RT_ABD_rpb, cam.RT_ABCD_rpb}$ cam.RT_ABCD_rpb	
251	ca_binding_to_cam_RT_ABC_rpb_on_site_D	ca binding to cam.RT_ABC_rpb on site D	ca+cam.RT_ABC_rpb $\xrightleftharpoons{ca, cam.RT_ABC_rpb, cam.RT_ABCD_rpb}$ cam.RT_ABCD_rpb	
252	tbp_binding_to_cam_RT_ABCD_0	tbp binding to cam.RT_ABCD_0	tbp+cam.RT_ABCD_0 $\xrightleftharpoons{tbp, cam.RT_ABCD_0, cam.RT_ABCD_tbp}$ cam.RT_ABCD_tbp	
253	ca_binding_to_cam_RT_BCD_tbp_on_site_A	ca binding to cam.RT_BCD_tbp on site A	ca+cam.RT_BCD_tbp $\xrightleftharpoons{ca, cam.RT_BCD_tbp, cam.RT_ABCD_tbp}$ cam.RT_ABCD_tbp	

Nº	Id	Name	Reaction Equation	SBO
254	ca_binding_to-_cam_RT_ACD_tbp-_on_site_B	ca binding to cam_RT_ACD_tbp on site B	ca+cam_RT_ACD_tbp $\xrightleftharpoons{ca, cam_RT_ACD_tbp, cam_RT_ABCD_tbp}$	cam_RT_ABCD_tbp
255	ca_binding_to-_cam_RT_ABD_tbp-_on_site_C	ca binding to cam_RT_ABD_tbp on site C	ca+cam_RT_ABD_tbp $\xrightleftharpoons{ca, cam_RT_ABD_tbp, cam_RT_ABCD_tbp}$	cam_RT_ABCD_tbp
256	ca_binding_to-_cam_RT_ABC_tbp-_on_site_D	ca binding to cam_RT_ABC_tbp on site D	ca+cam_RT_ABC_tbp $\xrightleftharpoons{ca, cam_RT_ABC_tbp, cam_RT_ABCD_tbp}$	cam_RT_ABCD_tbp
257	rbp_binding_to-_cam_TR_0_0	rbp binding to cam_TR_0_0	rbp+cam_TR_0_0 $\xrightleftharpoons{rbp, cam_TR_0_0, cam_TR_0_rbp}$	cam_TR_0_rbp
258	tbp_binding_to-_cam_TR_0_0	tbp binding to cam_TR_0_0	tbp+cam_TR_0_0 $\xrightleftharpoons{tbp, cam_TR_0_0, cam_TR_0_tbp}$	cam_TR_0_tbp
259	ca_binding_to-_cam_TR_0_0_on-_site_A	ca binding to cam_TR_0_0 on site A	ca+cam_TR_0_0 $\xrightleftharpoons{ca, cam_TR_0_0, cam_TR_A_0}$	cam_TR_A_0
260	rbp_binding_to-_cam_TR_A_0	rbp binding to cam_TR_A_0	rbp+cam_TR_A_0 $\xrightleftharpoons{rbp, cam_TR_A_0, cam_TR_A_rbp}$	cam_TR_A_rbp
261	ca_binding_to-_cam_TR_0_rbp-_on_site_A	ca binding to cam_TR_0_rbp on site A	ca+cam_TR_0_rbp $\xrightleftharpoons{ca, cam_TR_0_rbp, cam_TR_A_rbp}$	cam_TR_A_rbp
262	tbp_binding_to-_cam_TR_A_0	tbp binding to cam_TR_A_0	tbp+cam_TR_A_0 $\xrightleftharpoons{tbp, cam_TR_A_0, cam_TR_A_tbp}$	cam_TR_A_tbp

Nº	Id	Name	Reaction Equation	SBO
263	ca_binding_to_cam_TR_0_tbp_on_site_A	ca binding to cam.TR_0.tbp on site A	ca+cam.TR_0.tbp $\xrightleftharpoons{ca, cam_TR_0_tbp, cam_TR_A_tbp}$ cam.TR_A.tbp	
264	ca_binding_to_cam_TR_0_0_on_site_B	ca binding to cam.TR_0.0 on site B	ca+cam.TR_0.0 $\xrightleftharpoons{ca, cam_TR_0_0, cam_TR_B_0}$ cam.TR_B.0	
265	rbp_binding_to_cam_TR_B_0	rbp binding to cam.TR_B.0	rbp+cam.TR_B.0 $\xrightleftharpoons{rbp, cam_TR_B_0, cam_TR_B_rbp}$ cam.TR_B.rbp	
266	ca_binding_to_cam_TR_0_rbp_on_site_B	ca binding to cam.TR_0.rbp on site B	ca+cam.TR_0.rbp $\xrightleftharpoons{ca, cam_TR_0_rbp, cam_TR_B_rbp}$ cam.TR_B.rbp	
267	tbp_binding_to_cam_TR_B_0	tbp binding to cam.TR_B.0	tbp+cam.TR_B.0 $\xrightleftharpoons{tbp, cam_TR_B_0, cam_TR_B_tbp}$ cam.TR_B.tbp	
268	ca_binding_to_cam_TR_0_tbp_on_site_B	ca binding to cam.TR_0.tbp on site B	ca+cam.TR_0.tbp $\xrightleftharpoons{ca, cam_TR_0_tbp, cam_TR_B_tbp}$ cam.TR_B.tbp	
269	ca_binding_to_cam_TR_0_0_on_site_C	ca binding to cam.TR_0.0 on site C	ca+cam.TR_0.0 $\xrightleftharpoons{ca, cam_TR_0_0, cam_TR_C_0}$ cam.TR_C.0	
270	rbp_binding_to_cam_TR_C_0	rbp binding to cam.TR_C.0	rbp+cam.TR_C.0 $\xrightleftharpoons{rbp, cam_TR_C_0, cam_TR_C_rbp}$ cam.TR_C.rbp	
271	ca_binding_to_cam_TR_0_rbp_on_site_C	ca binding to cam.TR_0.rbp on site C	ca+cam.TR_0.rbp $\xrightleftharpoons{ca, cam_TR_0_rbp, cam_TR_C_rbp}$ cam.TR_C.rbp	

Nº	Id	Name	Reaction Equation	SBO
272	tbp_binding_to_cam_TR_C_0	tbp binding to cam.TR.C.0	$tbp + cam.TR.C.0 \xrightleftharpoons{tbp, cam.TR.C.0, cam.TR.C.tbp} cam.TR.C.tbp$	
273	ca_binding_to_cam_TR_0_tbp_on_site_C	ca binding to cam.TR.0.tbp on site C	$ca + cam.TR.0.tbp \xrightleftharpoons{ca, cam.TR.0.tbp, cam.TR.C.tbp} cam.TR.C.tbp$	
274	ca_binding_to_cam_TR_0_0_on_site_D	ca binding to cam.TR.0.0 on site D	$ca + cam.TR.0.0 \xrightleftharpoons{ca, cam.TR.0.0, cam.TR.D.0} cam.TR.D.0$	
275	rpb_binding_to_cam_TR_D_0	rpb binding to cam.TR.D.0	$rpb + cam.TR.D.0 \xrightleftharpoons{rpb, cam.TR.D.0, cam.TR.D.rpb} cam.TR.D.rpb$	
276	ca_binding_to_cam_TR_0_rpb_on_site_D	ca binding to cam.TR.0.rpb on site D	$ca + cam.TR.0.rpb \xrightleftharpoons{ca, cam.TR.0.rpb, cam.TR.D.rpb} cam.TR.D.rpb$	
277	tbp_binding_to_cam_TR_D_0	tbp binding to cam.TR.D.0	$tbp + cam.TR.D.0 \xrightleftharpoons{tbp, cam.TR.D.0, cam.TR.D.tbp} cam.TR.D.tbp$	
278	ca_binding_to_cam_TR_0_tbp_on_site_D	ca binding to cam.TR.0.tbp on site D	$ca + cam.TR.0.tbp \xrightleftharpoons{ca, cam.TR.0.tbp, cam.TR.D.tbp} cam.TR.D.tbp$	
279	ca_binding_to_cam_TR_B_0_on_site_A	ca binding to cam.TR.B.0 on site A	$ca + cam.TR.B.0 \xrightleftharpoons{ca, cam.TR.B.0, cam.TR.AB.0} cam.TR.AB.0$	
280	ca_binding_to_cam_TR_A_0_on_site_B	ca binding to cam.TR.A.0 on site B	$ca + cam.TR.A.0 \xrightleftharpoons{ca, cam.TR.A.0, cam.TR.AB.0} cam.TR.AB.0$	

Nº	Id	Name	Reaction Equation	SBO
281	rbp_binding_to_cam_TR_AB_0	rbp binding to cam.TR_AB_0	$\text{rbp} + \text{cam.TR_AB_0} \xrightleftharpoons{\text{rbp, cam.TR_AB_0, cam.TR_AB_rbp}} \text{cam.TR_AB_rbp}$	
282	ca_binding_to_cam_TR_B_rbp_on_site_A	ca binding to cam.TR.B.rbp on site A	$\text{ca} + \text{cam.TR_B_rbp} \xrightleftharpoons{\text{ca, cam.TR_B_rbp, cam.TR_AB_rbp}} \text{cam.TR_AB_rbp}$	
283	ca_binding_to_cam_TR_A_rbp_on_site_B	ca binding to cam.TR.A.rbp on site B	$\text{ca} + \text{cam.TR_A_rbp} \xrightleftharpoons{\text{ca, cam.TR_A_rbp, cam.TR_AB_rbp}} \text{cam.TR_AB_rbp}$	
284	tbp_binding_to_cam_TR_AB_0	tbp binding to cam.TR_AB_0	$\text{tbp} + \text{cam.TR_AB_0} \xrightleftharpoons{\text{tbp, cam.TR_AB_0, cam.TR_AB_tbp}} \text{cam.TR_AB_tbp}$	
285	ca_binding_to_cam_TR_B_tbp_on_site_A	ca binding to cam.TR.B.tbp on site A	$\text{ca} + \text{cam.TR_B_tbp} \xrightleftharpoons{\text{ca, cam.TR_B_tbp, cam.TR_AB_tbp}} \text{cam.TR_AB_tbp}$	
286	ca_binding_to_cam_TR_A_tbp_on_site_B	ca binding to cam.TR.A.tbp on site B	$\text{ca} + \text{cam.TR_A_tbp} \xrightleftharpoons{\text{ca, cam.TR_A_tbp, cam.TR_AB_tbp}} \text{cam.TR_AB_tbp}$	
287	ca_binding_to_cam_TR_C_0_on_site_A	ca binding to cam.TR.C_0 on site A	$\text{ca} + \text{cam.TR_C_0} \xrightleftharpoons{\text{ca, cam.TR_C_0, cam.TR_AC_0}} \text{cam.TR_AC_0}$	
288	ca_binding_to_cam_TR_A_0_on_site_C	ca binding to cam.TR.A_0 on site C	$\text{ca} + \text{cam.TR_A_0} \xrightleftharpoons{\text{ca, cam.TR_A_0, cam.TR_AC_0}} \text{cam.TR_AC_0}$	
289	rbp_binding_to_cam_TR_AC_0	rbp binding to cam.TR.AC_0	$\text{rbp} + \text{cam.TR_AC_0} \xrightleftharpoons{\text{rbp, cam.TR_AC_0, cam.TR_AC_rbp}} \text{cam.TR_AC_rbp}$	

Nº	Id	Name	Reaction Equation	SBO
290	ca_binding_to_cam_TR_C_rbp_on_site_A	ca binding to cam.TR.C.rbp on site A	ca+cam.TR.C.rbp $\xrightleftharpoons{ca, cam_TR_C_rbp, cam_TR_AC_rbp}$	cam.TR.AC.rbp
291	ca_binding_to_cam_TR_A_rbp_on_site_C	ca binding to cam.TR.A.rbp on site C	ca+cam.TR.A.rbp $\xrightleftharpoons{ca, cam_TR_A_rbp, cam_TR_AC_rbp}$	cam.TR.AC.rbp
292	tbp_binding_to_cam_TR_AC_0	tbp binding to cam.TR.AC.0	tbp+cam.TR.AC.0 $\xrightleftharpoons{tbp, cam_TR_AC_0, cam_TR_AC_tbp}$	cam.TR.AC.tbp
293	ca_binding_to_cam_TR_C_tbp_on_site_A	ca binding to cam.TR.C.tbp on site A	ca+cam.TR.C.tbp $\xrightleftharpoons{ca, cam_TR_C_tbp, cam_TR_AC_tbp}$	cam.TR.AC.tbp
294	ca_binding_to_cam_TR_A_tbp_on_site_C	ca binding to cam.TR.A.tbp on site C	ca+cam.TR.A.tbp $\xrightleftharpoons{ca, cam_TR_A_tbp, cam_TR_AC_tbp}$	cam.TR.AC.tbp
295	ca_binding_to_cam_TR_D_0_on_site_A	ca binding to cam.TR.D.0 on site A	ca+cam.TR.D.0 $\xrightleftharpoons{ca, cam_TR_D_0, cam_TR_AD_0}$	cam.TR.AD.0
296	ca_binding_to_cam_TR_A_0_on_site_D	ca binding to cam.TR.A.0 on site D	ca+cam.TR.A.0 $\xrightleftharpoons{ca, cam_TR_A_0, cam_TR_AD_0}$	cam.TR.AD.0
297	rbp_binding_to_cam_TR_AD_0	rbp binding to cam.TR.AD.0	rbp+cam.TR.AD.0 $\xrightleftharpoons{rbp, cam_TR_AD_0, cam_TR_AD_rbp}$	cam.TR.AD.rbp

Nº	Id	Name	Reaction Equation	SBO
298	ca_binding_to_cam_TR_D_rbp_on_site_A	ca binding to cam.TR.D.rbp on site A	ca+cam.TR.D.rbp $\xrightleftharpoons{ca, cam_TR_D_rbp, cam_TR_AD_rbp}$ cam.TR.AD.rbp	
299	ca_binding_to_cam_TR_A_rbp_on_site_D	ca binding to cam.TR.A.rbp on site D	ca+cam.TR.A.rbp $\xrightleftharpoons{ca, cam_TR_A_rbp, cam_TR_AD_rbp}$ cam.TR.AD.rbp	
300	tbp_binding_to_cam_TR_AD_0	tbp binding to cam.TR.AD.0	tbp+cam.TR.AD.0 $\xrightleftharpoons{tbp, cam_TR_AD_0, cam_TR_AD_tbp}$ cam.TR.AD.tbp	
301	ca_binding_to_cam_TR_D_tbp_on_site_A	ca binding to cam.TR.D.tbp on site A	ca+cam.TR.D.tbp $\xrightleftharpoons{ca, cam_TR_D_tbp, cam_TR_AD_tbp}$ cam.TR.AD.tbp	
302	ca_binding_to_cam_TR_A_tbp_on_site_D	ca binding to cam.TR.A.tbp on site D	ca+cam.TR.A.tbp $\xrightleftharpoons{ca, cam_TR_A_tbp, cam_TR_AD_tbp}$ cam.TR.AD.tbp	
303	ca_binding_to_cam_TR_C_0_on_site_B	ca binding to cam.TR.C.0 on site B	ca+cam.TR.C.0 $\xrightleftharpoons{ca, cam_TR_C_0, cam_TR_BC_0}$ cam.TR.BC.0	
304	ca_binding_to_cam_TR_B_0_on_site_C	ca binding to cam.TR.B.0 on site C	ca+cam.TR.B.0 $\xrightleftharpoons{ca, cam_TR_B_0, cam_TR_BC_0}$ cam.TR.BC.0	
305	rbp_binding_to_cam_TR_BC_0	rbp binding to cam.TR.BC.0	rbp+cam.TR.BC.0 $\xrightleftharpoons{rbp, cam_TR_BC_0, cam_TR_BC_rbp}$ cam.TR.BC.rbp	

Nº	Id	Name	Reaction Equation	SBO
306	ca_binding_to_cam_TR_C_rbp_on_site_B	ca binding to cam.TR.C.rbp on site B	ca+cam.TR.C.rbp $\xrightleftharpoons{ca, cam_TR_C_rbp, cam_TR_BC_rbp}$ cam.TR.BC.rbp	
307	ca_binding_to_cam_TR_B_rbp_on_site_C	ca binding to cam.TR.B.rbp on site C	ca+cam.TR.B.rbp $\xrightleftharpoons{ca, cam_TR_B_rbp, cam_TR_BC_rbp}$ cam.TR.BC.rbp	
308	tbp_binding_to_cam_TR_BC_0	tbp binding to cam.TR.BC.0	tbp+cam.TR.BC.0 $\xrightleftharpoons{tbp, cam_TR_BC_0, cam_TR_BC_tbp}$ cam.TR.BC.tbp	
309	ca_binding_to_cam_TR_C_tbp_on_site_B	ca binding to cam.TR.C.tbp on site B	ca+cam.TR.C.tbp $\xrightleftharpoons{ca, cam_TR_C_tbp, cam_TR_BC_tbp}$ cam.TR.BC.tbp	
310	ca_binding_to_cam_TR_B_tbp_on_site_C	ca binding to cam.TR.B.tbp on site C	ca+cam.TR.B.tbp $\xrightleftharpoons{ca, cam_TR_B_tbp, cam_TR_BC_tbp}$ cam.TR.BC.tbp	
311	ca_binding_to_cam_TR_D_0_on_site_B	ca binding to cam.TR.D.0 on site B	ca+cam.TR.D.0 $\xrightleftharpoons{ca, cam_TR_D_0, cam_TR_BD_0}$ cam.TR.BD.0	
312	ca_binding_to_cam_TR_B_0_on_site_D	ca binding to cam.TR.B.0 on site D	ca+cam.TR.B.0 $\xrightleftharpoons{ca, cam_TR_B_0, cam_TR_BD_0}$ cam.TR.BD.0	
313	rbp_binding_to_cam_TR_BD_0	rbp binding to cam.TR.BD.0	rbp+cam.TR.BD.0 $\xrightleftharpoons{rbp, cam_TR_BD_0, cam_TR_BD_rbp}$ cam.TR.BD.rbp	

Nº	Id	Name	Reaction Equation	SBO
314	ca_binding_to_cam_TR_D_rbp_on_site_B	ca binding to cam.TR.D.rbp on site B	ca+cam.TR.D.rbp $\xrightleftharpoons{ca, cam_TR_D_rbp, cam_TR_BD_rbp}$ cam.TR.BD.rbp	
315	ca_binding_to_cam_TR_B_rbp_on_site_D	ca binding to cam.TR.B.rbp on site D	ca+cam.TR.B.rbp $\xrightleftharpoons{ca, cam_TR_B_rbp, cam_TR_BD_rbp}$ cam.TR.BD.rbp	
316	tbp_binding_to_cam_TR_BD_0	tbp binding to cam.TR.BD.0	tbp+cam.TR.BD.0 $\xrightleftharpoons{tbp, cam_TR_BD_0, cam_TR_BD_tbp}$ cam.TR.BD.tbp	
317	ca_binding_to_cam_TR_D_tbp_on_site_B	ca binding to cam.TR.D.tbp on site B	ca+cam.TR.D.tbp $\xrightleftharpoons{ca, cam_TR_D_tbp, cam_TR_BD_tbp}$ cam.TR.BD.tbp	
318	ca_binding_to_cam_TR_B_tbp_on_site_D	ca binding to cam.TR.B.tbp on site D	ca+cam.TR.B.tbp $\xrightleftharpoons{ca, cam_TR_B_tbp, cam_TR_BD_tbp}$ cam.TR.BD.tbp	
319	ca_binding_to_cam_TR_D_0_on_site_C	ca binding to cam.TR.D.0 on site C	ca+cam.TR.D.0 $\xrightleftharpoons{ca, cam_TR_D_0, cam_TR_CD_0}$ cam.TR.CD.0	
320	ca_binding_to_cam_TR_C_0_on_site_D	ca binding to cam.TR.C.0 on site D	ca+cam.TR.C.0 $\xrightleftharpoons{ca, cam_TR_C_0, cam_TR_CD_0}$ cam.TR.CD.0	
321	rbp_binding_to_cam_TR_CD_0	rbp binding to cam.TR.CD.0	rbp+cam.TR.CD.0 $\xrightleftharpoons{rbp, cam_TR_CD_0, cam_TR_CD_rbp}$ cam.TR.CD.rbp	

Nº	Id	Name	Reaction Equation	SBO
322	ca_binding_to_cam_TR_D_rbp_on_site_C	ca binding to cam.TR.D.rbp on site C	ca+cam.TR.D.rbp $\xrightleftharpoons{ca, cam_TR_D_rbp, cam_TR_CD_rbp}$ cam.TR.CD.rbp	
323	ca_binding_to_cam_TR_C_rbp_on_site_D	ca binding to cam.TR.C.rbp on site D	ca+cam.TR.C.rbp $\xrightleftharpoons{ca, cam_TR_C_rbp, cam_TR_CD_rbp}$ cam.TR.CD.rbp	
324	tbp_binding_to_cam_TR_CD_0	tbp binding to cam.TR.CD.0	tbp+cam.TR.CD.0 $\xrightleftharpoons{tbp, cam_TR_CD_0, cam_TR_CD_tbp}$ cam.TR.CD.tbp	
325	ca_binding_to_cam_TR_D_tbp_on_site_C	ca binding to cam.TR.D.tbp on site C	ca+cam.TR.D.tbp $\xrightleftharpoons{ca, cam_TR_D_tbp, cam_TR_CD_tbp}$ cam.TR.CD.tbp	
326	ca_binding_to_cam_TR_C_tbp_on_site_D	ca binding to cam.TR.C.tbp on site D	ca+cam.TR.C.tbp $\xrightleftharpoons{ca, cam_TR_C_tbp, cam_TR_CD_tbp}$ cam.TR.CD.tbp	
327	ca_binding_to_cam_TR_BC_0_on_site_A	ca binding to cam.TR.BC.0 on site A	ca+cam.TR.BC.0 $\xrightleftharpoons{ca, cam_TR_BC_0, cam_TR_ABC_0}$ cam.TR.ABC.0	
328	ca_binding_to_cam_TR_AC_0_on_site_B	ca binding to cam.TR.AC.0 on site B	ca+cam.TR.AC.0 $\xrightleftharpoons{ca, cam_TR_AC_0, cam_TR_ABC_0}$ cam.TR.ABC.0	
329	ca_binding_to_cam_TR_AB_0_on_site_C	ca binding to cam.TR.AB.0 on site C	ca+cam.TR.AB.0 $\xrightleftharpoons{ca, cam_TR_AB_0, cam_TR_ABC_0}$ cam.TR.ABC.0	

Nº	Id	Name	Reaction Equation	SBO
330	rbp_binding_to_cam_TR_ABC_0	rbp binding to cam.TR_ABC_0	$\text{rbp} + \text{cam.TR_ABC_0} \xrightleftharpoons{\text{rbp, cam_TR_ABC_0, cam_TR_ABC_rbp}} \text{cam.TR_ABC_rbp}$	
331	ca_binding_to_cam_TR_BC_rbp_on_site_A	ca binding to cam.TR_BC_rbp on site A	$\text{ca} + \text{cam.TR_BC_rbp} \xrightleftharpoons{\text{ca, cam_TR_BC_rbp, cam_TR_ABC_rbp}} \text{cam.TR_ABC_rbp}$	
332	ca_binding_to_cam_TR_AC_rbp_on_site_B	ca binding to cam.TR.AC.rbp on site B	$\text{ca} + \text{cam.TR_AC_rbp} \xrightleftharpoons{\text{ca, cam_TR_AC_rbp, cam_TR_ABC_rbp}} \text{cam.TR_ABC_rbp}$	
333	ca_binding_to_cam_TR_AB_rbp_on_site_C	ca binding to cam.TR_AB_rbp on site C	$\text{ca} + \text{cam.TR_AB_rbp} \xrightleftharpoons{\text{ca, cam_TR_AB_rbp, cam_TR_ABC_rbp}} \text{cam.TR_ABC_rbp}$	
334	tbp_binding_to_cam_TR_ABC_0	tbp binding to cam.TR_ABC_0	$\text{tbp} + \text{cam.TR_ABC_0} \xrightleftharpoons{\text{tbp, cam_TR_ABC_0, cam_TR_ABC_tbp}} \text{cam.TR_ABC_tbp}$	
335	ca_binding_to_cam_TR_BC_tbp_on_site_A	ca binding to cam.TR_BC_tbp on site A	$\text{ca} + \text{cam.TR_BC_tbp} \xrightleftharpoons{\text{ca, cam_TR_BC_tbp, cam_TR_ABC_tbp}} \text{cam.TR_ABC_tbp}$	
336	ca_binding_to_cam_TR_AC_tbp_on_site_B	ca binding to cam.TR.AC.tbp on site B	$\text{ca} + \text{cam.TR_AC_tbp} \xrightleftharpoons{\text{ca, cam_TR_AC_tbp, cam_TR_ABC_tbp}} \text{cam.TR_ABC_tbp}$	
337	ca_binding_to_cam_TR_AB_tbp_on_site_C	ca binding to cam.TR_AB_tbp on site C	$\text{ca} + \text{cam.TR_AB_tbp} \xrightleftharpoons{\text{ca, cam_TR_AB_tbp, cam_TR_ABC_tbp}} \text{cam.TR_ABC_tbp}$	

Nº	Id	Name	Reaction Equation	SBO
338	ca_binding_to_cam_TR_BD_0_on_site_A	ca binding to cam.TR.BD.0 on site A	ca+cam.TR.BD.0 $\xrightleftharpoons{ca, cam_TR_BD_0, cam_TR_ABD_0}$	cam.TR.ABD.0
339	ca_binding_to_cam_TR_AD_0_on_site_B	ca binding to cam.TR.AD.0 on site B	ca+cam.TR.AD.0 $\xrightleftharpoons{ca, cam_TR_AD_0, cam_TR_ABD_0}$	cam.TR.ABD.0
340	ca_binding_to_cam_TR_AB_0_on_site_D	ca binding to cam.TR.AB.0 on site D	ca+cam.TR.AB.0 $\xrightleftharpoons{ca, cam_TR_AB_0, cam_TR_ABD_0}$	cam.TR.ABD.0
341	rpb_binding_to_cam_TR_ABD_0	rpb binding to cam.TR.ABD.0	rpb+cam.TR.ABD.0 $\xrightleftharpoons{rpb, cam_TR_ABD_0, cam_TR_ABD_rpb}$	cam.TR.ABD.rpb
342	ca_binding_to_cam_TR_BD_rpb_on_site_A	ca binding to cam.TR.BD.rpb on site A	ca+cam.TR.BD.rpb $\xrightleftharpoons{ca, cam_TR_BD_rpb, cam_TR_ABD_rpb}$	cam.TR.ABD.rpb
343	ca_binding_to_cam_TR_AD_rpb_on_site_B	ca binding to cam.TR.AD.rpb on site B	ca+cam.TR.AD.rpb $\xrightleftharpoons{ca, cam_TR_AD_rpb, cam_TR_ABD_rpb}$	cam.TR.ABD.rpb
344	ca_binding_to_cam_TR_AB_rpb_on_site_D	ca binding to cam.TR.AB.rpb on site D	ca+cam.TR.AB.rpb $\xrightleftharpoons{ca, cam_TR_AB_rpb, cam_TR_ABD_rpb}$	cam.TR.ABD.rpb
345	tbp_binding_to_cam_TR_ABD_0	tbp binding to cam.TR.ABD.0	tbp+cam.TR.ABD.0 $\xrightleftharpoons{tbp, cam_TR_ABD_0, cam_TR_ABD_tbp}$	cam.TR.ABD.tbp

Nº	Id	Name	Reaction Equation	SBO
346	ca_binding_to_cam_TR_BD_tbp_on_site_A	ca binding to cam.TR.BD.tbp on site A	ca + cam.TR.BD.tbp $\xrightleftharpoons{ca, cam_TR_BD_tbp, cam_TR_ABD_tbp}$ cam.TR.ABD.tbp	
347	ca_binding_to_cam_TR_AD_tbp_on_site_B	ca binding to cam.TR.AD.tbp on site B	ca + cam.TR.AD.tbp $\xrightleftharpoons{ca, cam_TR_AD_tbp, cam_TR_ABD_tbp}$ cam.TR.ABD.tbp	
348	ca_binding_to_cam_TR_AB_tbp_on_site_D	ca binding to cam.TR.AB.tbp on site D	ca + cam.TR.AB.tbp $\xrightleftharpoons{ca, cam_TR_AB_tbp, cam_TR_ABD_tbp}$ cam.TR.ABD.tbp	
349	ca_binding_to_cam_TR_CD_0_on_site_A	ca binding to cam.TR.CD.0 on site A	ca + cam.TR.CD.0 $\xrightleftharpoons{ca, cam_TR_CD_0, cam_TR_ACD_0}$ cam.TR.ACD.0	
350	ca_binding_to_cam_TR_AD_0_on_site_C	ca binding to cam.TR.AD.0 on site C	ca + cam.TR.AD.0 $\xrightleftharpoons{ca, cam_TR_AD_0, cam_TR_ACD_0}$ cam.TR.ACD.0	
351	ca_binding_to_cam_TR_AC_0_on_site_D	ca binding to cam.TR.AC.0 on site D	ca + cam.TR.AC.0 $\xrightleftharpoons{ca, cam_TR_AC_0, cam_TR_ACD_0}$ cam.TR.ACD.0	
352	rpb_binding_to_cam_TR_ACD_0	rpb binding to cam.TR.ACD.0	rpb + cam.TR.ACD.0 $\xrightleftharpoons{rbp, cam_TR_ACD_0, cam_TR_ACD_rbp}$ cam.TR.ACD.rbp	
353	ca_binding_to_cam_TR_CD_rpb_on_site_A	ca binding to cam.TR.CD.rpb on site A	ca + cam.TR.CD.rpb $\xrightleftharpoons{ca, cam_TR_CD_rbp, cam_TR_ACD_rbp}$ cam.TR.ACD.rbp	

Nº	Id	Name	Reaction Equation	SBO
354	ca_binding_to_cam_TR_AD_rbp_on_site_C	ca binding to cam.TR.AD.rbp on site C	ca + cam.TR.AD.rbp $\xrightleftharpoons{ca, cam_TR_AD_rbp, cam_TR_ACD_rbp}$ cam.TR.ACD.rbp	
355	ca_binding_to_cam_TR_AC_rbp_on_site_D	ca binding to cam.TR.AC.rbp on site D	ca + cam.TR.AC.rbp $\xrightleftharpoons{ca, cam_TR_AC_rbp, cam_TR_ACD_rbp}$ cam.TR.ACD.rbp	
356	tbp_binding_to_cam_TR_ACD_0	tbp binding to cam.TR.ACD.0	tbp + cam.TR.ACD.0 $\xrightleftharpoons{tbp, cam_TR_ACD_0, cam_TR_ACD_tbp}$ cam.TR.ACD.tbp	
357	ca_binding_to_cam_TR_CD_tbp_on_site_A	ca binding to cam.TR.CD.tbp on site A	ca + cam.TR.CD.tbp $\xrightleftharpoons{ca, cam_TR_CD_tbp, cam_TR_ACD_tbp}$ cam.TR.ACD.tbp	
358	ca_binding_to_cam_TR_AD_tbp_on_site_C	ca binding to cam.TR.AD.tbp on site C	ca + cam.TR.AD.tbp $\xrightleftharpoons{ca, cam_TR_AD_tbp, cam_TR_ACD_tbp}$ cam.TR.ACD.tbp	
359	ca_binding_to_cam_TR_AC_tbp_on_site_D	ca binding to cam.TR.AC.tbp on site D	ca + cam.TR.AC.tbp $\xrightleftharpoons{ca, cam_TR_AC_tbp, cam_TR_ACD_tbp}$ cam.TR.ACD.tbp	
360	ca_binding_to_cam_TR_CD_0_on_site_B	ca binding to cam.TR.CD.0 on site B	ca + cam.TR.CD.0 $\xrightleftharpoons{ca, cam_TR_CD_0, cam_TR_BCD_0}$ cam.TR.BCD.0	
361	ca_binding_to_cam_TR_BD_0_on_site_C	ca binding to cam.TR.BD.0 on site C	ca + cam.TR.BD.0 $\xrightleftharpoons{ca, cam_TR_BD_0, cam_TR_BCD_0}$ cam.TR.BCD.0	

Nº	Id	Name	Reaction Equation	SBO
362	ca_binding_to_cam_TR_BC_0_on_site_D	ca binding to cam.TR.BC.0 on site D	ca+cam.TR.BC.0 $\xrightleftharpoons{ca, cam_TR_BC_0, cam_TR_BCD_0}$ cam.TR.BCD.0	
363	rbp_binding_to_cam_TR_BCD_0	rbp binding to cam.TR.BCD.0	rbp+cam.TR.BCD.0 $\xrightleftharpoons{rbp, cam_TR_BCD_0, cam_TR_BCD_rbp}$ cam.TR.BCD.rbp	
364	ca_binding_to_cam_TR_CD_rbp_on_site_B	ca binding to cam.TR.CD.rbp on site B	ca+cam.TR.CD.rbp $\xrightleftharpoons{ca, cam_TR_CD_rbp, cam_TR_BCD_rbp}$ cam.TR.BCD.rbp	
365	ca_binding_to_cam_TR_BD_rbp_on_site_C	ca binding to cam.TR.BD.rbp on site C	ca+cam.TR.BD.rbp $\xrightleftharpoons{ca, cam_TR_BD_rbp, cam_TR_BCD_rbp}$ cam.TR.BCD.rbp	
366	ca_binding_to_cam_TR_BC_rbp_on_site_D	ca binding to cam.TR.BC.rbp on site D	ca+cam.TR.BC.rbp $\xrightleftharpoons{ca, cam_TR_BC_rbp, cam_TR_BCD_rbp}$ cam.TR.BCD.rbp	
367	tbp_binding_to_cam_TR_BCD_0	tbp binding to cam.TR.BCD.0	tbp+cam.TR.BCD.0 $\xrightleftharpoons{tbp, cam_TR_BCD_0, cam_TR_BCD_tbp}$ cam.TR.BCD.tbp	
368	ca_binding_to_cam_TR_CD_tbp_on_site_B	ca binding to cam.TR.CD.tbp on site B	ca+cam.TR.CD.tbp $\xrightleftharpoons{ca, cam_TR_CD_tbp, cam_TR_BCD_tbp}$ cam.TR.BCD.tbp	
369	ca_binding_to_cam_TR_BD_tbp_on_site_C	ca binding to cam.TR.BD.tbp on site C	ca+cam.TR.BD.tbp $\xrightleftharpoons{ca, cam_TR_BD_tbp, cam_TR_BCD_tbp}$ cam.TR.BCD.tbp	

Nº	Id	Name	Reaction Equation	SBO
370	ca_binding_to_cam_TR_BC_tbp_on_site_D	ca binding to cam.TR.BC.tbp on site D	ca + cam.TR.BC.tbp $\xrightleftharpoons{ca, cam_TR_BC_tbp, cam_TR_BCD_tbp}$ cam.TR.BCD.tbp	
371	ca_binding_to_cam_TR_BCD_0_on_site_A	ca binding to cam.TR.BCD.0 on site A	ca + cam.TR.BCD.0 $\xrightleftharpoons{ca, cam_TR_BCD_0, cam_TR_ABCD_0}$ cam.TR.ABCD.0	
372	ca_binding_to_cam_TR_ACD_0_on_site_B	ca binding to cam.TR.ACD.0 on site B	ca + cam.TR.ACD.0 $\xrightleftharpoons{ca, cam_TR_ACD_0, cam_TR_ABCD_0}$ cam.TR.ABCD.0	
373	ca_binding_to_cam_TR_ABD_0_on_site_C	ca binding to cam.TR.ABD.0 on site C	ca + cam.TR.ABD.0 $\xrightleftharpoons{ca, cam_TR_ABD_0, cam_TR_ABCD_0}$ cam.TR.ABCD.0	
374	ca_binding_to_cam_TR_ABC_0_on_site_D	ca binding to cam.TR.ABC.0 on site D	ca + cam.TR.ABC.0 $\xrightleftharpoons{ca, cam_TR_ABC_0, cam_TR_ABCD_0}$ cam.TR.ABCD.0	
375	rbp_binding_to_cam_TR_ABCD_0	rbp binding to cam.TR.ABCD.0	rbp + cam.TR.ABCD.0 $\xrightleftharpoons{rbp, cam_TR_ABCD_0, cam_TR_ABCD_rbp}$ cam.TR.ABCD.rbp	
376	ca_binding_to_cam_TR_BCD_rbp_on_site_A	ca binding to cam.TR.BCD.rbp on site A	ca + cam.TR.BCD.rbp $\xrightleftharpoons{ca, cam_TR_BCD_rbp, cam_TR_ABCD_rbp}$ cam.TR.ABCD.rbp	
377	ca_binding_to_cam_TR_ACD_rbp_on_site_B	ca binding to cam.TR.ACD.rbp on site B	ca + cam.TR.ACD.rbp $\xrightleftharpoons{ca, cam_TR_ACD_rbp, cam_TR_ABCD_rbp}$ cam.TR.ABCD.rbp	

Nº	Id	Name	Reaction Equation	SBO
378	ca_binding_to_cam_TR_ABD_rbp_on_site_C	ca binding to cam.TR.ABD.rbp on site C	ca+cam.TR.ABD.rbp $\xrightleftharpoons{ca, cam_TR_ABD_rbp, cam_TR_ABCD_rbp}$	cam.TR.ABCD.rbp
379	ca_binding_to_cam_TR_ABC_rbp_on_site_D	ca binding to cam.TR.ABC.rbp on site D	ca+cam.TR.ABC.rbp $\xrightleftharpoons{ca, cam_TR_ABC_rbp, cam_TR_ABCD_rbp}$	cam.TR.ABCD.rbp
380	tbp_binding_to_cam_TR_ABCD_0	tbp binding to cam.TR.ABCD_0	tbp+cam.TR.ABCD_0 $\xrightleftharpoons{tbp, cam_TR_ABCD_0, cam_TR_ABCD_tbp}$	cam.TR.ABCD.tbp
381	ca_binding_to_cam_TR_BCD_tbp_on_site_A	ca binding to cam.TR.BCD.tbp on site A	ca+cam.TR.BCD.tbp $\xrightleftharpoons{ca, cam_TR_BCD_tbp, cam_TR_ABCD_tbp}$	cam.TR.ABCD.tbp
382	ca_binding_to_cam_TR_ACD_tbp_on_site_B	ca binding to cam.TR.ACD.tbp on site B	ca+cam.TR.ACD.tbp $\xrightleftharpoons{ca, cam_TR_ACD_tbp, cam_TR_ABCD_tbp}$	cam.TR.ABCD.tbp
383	ca_binding_to_cam_TR_ABD_tbp_on_site_C	ca binding to cam.TR.ABD.tbp on site C	ca+cam.TR.ABD.tbp $\xrightleftharpoons{ca, cam_TR_ABD_tbp, cam_TR_ABCD_tbp}$	cam.TR.ABCD.tbp
384	ca_binding_to_cam_TR_ABC_tbp_on_site_D	ca binding to cam.TR.ABC.tbp on site D	ca+cam.TR.ABC.tbp $\xrightleftharpoons{ca, cam_TR_ABC_tbp, cam_TR_ABCD_tbp}$	cam.TR.ABCD.tbp
385	rpb_binding_to_cam_TT_0_0	rpb binding to cam.TT_0_0	rpb+cam.TT_0_0 $\xrightleftharpoons{rpb, cam_TT_0_0, cam_TT_0_rbp}$	cam.TT_0.rbp
386	tbp_binding_to_cam_TT_0_0	tbp binding to cam.TT_0_0	tbp+cam.TT_0_0 $\xrightleftharpoons{tbp, cam_TT_0_0, cam_TT_0_tbp}$	cam.TT_0.tbp

Nº	Id	Name	Reaction Equation	SBO
387	ca_binding_to_cam_TT_0_0_on_site_A	ca binding to cam_TT_0_0 on site A	ca + cam_TT_0_0 $\xrightleftharpoons{ca, cam_TT_0_0, cam_TT_A_0}$ cam_TT_A_0	
388	rbp_binding_to_cam_TT_A_0	rbp binding to cam_TT_A_0	rbp + cam_TT_A_0 $\xrightleftharpoons{rbp, cam_TT_A_0, cam_TT_A_rbp}$ cam_TT_A_rbp	
389	ca_binding_to_cam_TT_0_rbp_on_site_A	ca binding to cam_TT_0_rbp on site A	ca + cam_TT_0_rbp $\xrightleftharpoons{ca, cam_TT_0_rbp, cam_TT_A_rbp}$ cam_TT_A_rbp	
390	tbp_binding_to_cam_TT_A_0	tbp binding to cam_TT_A_0	tbp + cam_TT_A_0 $\xrightleftharpoons{tbp, cam_TT_A_0, cam_TT_A_tbp}$ cam_TT_A_tbp	
391	ca_binding_to_cam_TT_0_tbp_on_site_A	ca binding to cam_TT_0_tbp on site A	ca + cam_TT_0_tbp $\xrightleftharpoons{ca, cam_TT_0_tbp, cam_TT_A_tbp}$ cam_TT_A_tbp	
392	ca_binding_to_cam_TT_0_0_on_site_B	ca binding to cam_TT_0_0 on site B	ca + cam_TT_0_0 $\xrightleftharpoons{ca, cam_TT_0_0, cam_TT_B_0}$ cam_TT_B_0	
393	rbp_binding_to_cam_TT_B_0	rbp binding to cam_TT_B_0	rbp + cam_TT_B_0 $\xrightleftharpoons{rbp, cam_TT_B_0, cam_TT_B_rbp}$ cam_TT_B_rbp	
394	ca_binding_to_cam_TT_0_rbp_on_site_B	ca binding to cam_TT_0_rbp on site B	ca + cam_TT_0_rbp $\xrightleftharpoons{ca, cam_TT_0_rbp, cam_TT_B_rbp}$ cam_TT_B_rbp	
395	tbp_binding_to_cam_TT_B_0	tbp binding to cam_TT_B_0	tbp + cam_TT_B_0 $\xrightleftharpoons{tbp, cam_TT_B_0, cam_TT_B_tbp}$ cam_TT_B_tbp	

Nº	Id	Name	Reaction Equation	SBO
396	ca_binding_to_cam_TT_0_tbp_on_site_B	ca binding to cam_TT_0_tbp on site B	ca + cam_TT_0_tbp $\xrightleftharpoons{ca, cam_TT_0_tbp, cam_TT_B_tbp}$ cam_TT_B_tbp	
397	ca_binding_to_cam_TT_0_0_on_site_C	ca binding to cam_TT_0_0 on site C	ca + cam_TT_0_0 $\xrightleftharpoons{ca, cam_TT_0_0, cam_TT_C_0}$ cam_TT_C_0	
398	rpb_binding_to_cam_TT_C_0	rpb binding to cam_TT_C_0	rpb + cam_TT_C_0 $\xrightleftharpoons{rpb, cam_TT_C_0, cam_TT_C_rpb}$ cam_TT_C_rpb	
399	ca_binding_to_cam_TT_0_rbp_on_site_C	ca binding to cam_TT_0_rbp on site C	ca + cam_TT_0_rbp $\xrightleftharpoons{ca, cam_TT_0_rbp, cam_TT_C_rbp}$ cam_TT_C_rbp	
400	tbp_binding_to_cam_TT_C_0	tbp binding to cam_TT_C_0	tbp + cam_TT_C_0 $\xrightleftharpoons{tbp, cam_TT_C_0, cam_TT_C_tbp}$ cam_TT_C_tbp	
401	ca_binding_to_cam_TT_0_tbp_on_site_C	ca binding to cam_TT_0_tbp on site C	ca + cam_TT_0_tbp $\xrightleftharpoons{ca, cam_TT_0_tbp, cam_TT_C_tbp}$ cam_TT_C_tbp	
402	ca_binding_to_cam_TT_0_0_on_site_D	ca binding to cam_TT_0_0 on site D	ca + cam_TT_0_0 $\xrightleftharpoons{ca, cam_TT_0_0, cam_TT_D_0}$ cam_TT_D_0	
403	rpb_binding_to_cam_TT_D_0	rpb binding to cam_TT_D_0	rpb + cam_TT_D_0 $\xrightleftharpoons{rpb, cam_TT_D_0, cam_TT_D_rbp}$ cam_TT_D_rpb	
404	ca_binding_to_cam_TT_0_rbp_on_site_D	ca binding to cam_TT_0_rbp on site D	ca + cam_TT_0_rbp $\xrightleftharpoons{ca, cam_TT_0_rbp, cam_TT_D_rbp}$ cam_TT_D_rpb	

Nº	Id	Name	Reaction Equation	SBO
405	tbp_binding_to_cam_TT_D_0	tbp binding to cam.TT.D.0	$tbp + cam.TT.D.0 \xrightleftharpoons{tbp, cam.TT.D.0, cam.TT.D.tbp} cam.TT.D.tbp$	
406	ca_binding_to_cam_TT_0_tbp_on_site_D	ca binding to cam.TT.0.tbp on site D	$ca + cam.TT.0.tbp \xrightleftharpoons{ca, cam.TT.0.tbp, cam.TT.D.tbp} cam.TT.D.tbp$	
407	ca_binding_to_cam_TT_B_0_on_site_A	ca binding to cam.TT.B.0 on site A	$ca + cam.TT.B.0 \xrightleftharpoons{ca, cam.TT.B.0, cam.TT.AB.0} cam.TT.AB.0$	
408	ca_binding_to_cam_TT_A_0_on_site_B	ca binding to cam.TT.A.0 on site B	$ca + cam.TT.A.0 \xrightleftharpoons{ca, cam.TT.A.0, cam.TT.AB.0} cam.TT.AB.0$	
409	rpb_binding_to_cam_TT_AB_0	rpb binding to cam.TT.AB.0	$rpb + cam.TT.AB.0 \xrightleftharpoons{rpb, cam.TT.AB.0, cam.TT.AB.rpb} cam.TT.AB.rpb$	
410	ca_binding_to_cam_TT_B_rpb_on_site_A	ca binding to cam.TT.B.rpb on site A	$ca + cam.TT.B.rpb \xrightleftharpoons{ca, cam.TT.B.rpb, cam.TT.AB.rpb} cam.TT.AB.rpb$	
411	ca_binding_to_cam_TT_A_rpb_on_site_B	ca binding to cam.TT.A.rpb on site B	$ca + cam.TT.A.rpb \xrightleftharpoons{ca, cam.TT.A.rpb, cam.TT.AB.rpb} cam.TT.AB.rpb$	
412	tbp_binding_to_cam_TT_AB_0	tbp binding to cam.TT.AB.0	$tbp + cam.TT.AB.0 \xrightleftharpoons{tbp, cam.TT.AB.0, cam.TT.AB.tbp} cam.TT.AB.tbp$	
413	ca_binding_to_cam_TT_B_tbp_on_site_A	ca binding to cam.TT.B.tbp on site A	$ca + cam.TT.B.tbp \xrightleftharpoons{ca, cam.TT.B.tbp, cam.TT.AB.tbp} cam.TT.AB.tbp$	

Nº	Id	Name	Reaction Equation	SBO
414	ca_binding_to_cam_TT_A_tbp_on_site_B	ca binding to cam_TT_A_tbp on site B	ca + cam_TT_A_tbp $\xrightleftharpoons{ca, cam_TT_A_tbp, cam_TT_AB_tbp}$ cam_TT_AB_tbp	
415	ca_binding_to_cam_TT_C_0_on_site_A	ca binding to cam_TT_C_0 on site A	ca + cam_TT_C_0 $\xrightleftharpoons{ca, cam_TT_C_0, cam_TT_AC_0}$ cam_TT_AC_0	
416	ca_binding_to_cam_TT_A_0_on_site_C	ca binding to cam_TT_A_0 on site C	ca + cam_TT_A_0 $\xrightleftharpoons{ca, cam_TT_A_0, cam_TT_AC_0}$ cam_TT_AC_0	
417	rpb_binding_to_cam_TT_AC_0	rpb binding to cam_TT_AC_0	rpb + cam_TT_AC_0 $\xrightleftharpoons{rpb, cam_TT_AC_0, cam_TT_AC_rpb}$ cam_TT_AC_rpb	
418	ca_binding_to_cam_TT_C_rbp_on_site_A	ca binding to cam_TT_C_rbp on site A	ca + cam_TT_C_rbp $\xrightleftharpoons{ca, cam_TT_C_rbp, cam_TT_AC_rbp}$ cam_TT_AC_rbp	
419	ca_binding_to_cam_TT_A_rbp_on_site_C	ca binding to cam_TT_A_rbp on site C	ca + cam_TT_A_rbp $\xrightleftharpoons{ca, cam_TT_A_rbp, cam_TT_AC_rbp}$ cam_TT_AC_rbp	
420	tbp_binding_to_cam_TT_AC_0	tbp binding to cam_TT_AC_0	tbp + cam_TT_AC_0 $\xrightleftharpoons{tbp, cam_TT_AC_0, cam_TT_AC_tbp}$ cam_TT_AC_tbp	
421	ca_binding_to_cam_TT_C_tbp_on_site_A	ca binding to cam_TT_C_tbp on site A	ca + cam_TT_C_tbp $\xrightleftharpoons{ca, cam_TT_C_tbp, cam_TT_AC_tbp}$ cam_TT_AC_tbp	

Nº	Id	Name	Reaction Equation	SBO
422	ca_binding_to_cam_TT_A_tbp_on_site_C	ca binding to cam_TT_A_tbp on site C	ca + cam_TT_A_tbp $\xrightleftharpoons{ca, cam_TT_A_tbp, cam_TT_AC_tbp}$ cam_TT_AC_tbp	
423	ca_binding_to_cam_TT_D_0_on_site_A	ca binding to cam_TT_D_0 on site A	ca + cam_TT_D_0 $\xrightleftharpoons{ca, cam_TT_D_0, cam_TT_AD_0}$ cam_TT_AD_0	
424	ca_binding_to_cam_TT_A_0_on_site_D	ca binding to cam_TT_A_0 on site D	ca + cam_TT_A_0 $\xrightleftharpoons{ca, cam_TT_A_0, cam_TT_AD_0}$ cam_TT_AD_0	
425	rpb_binding_to_cam_TT_AD_0	rpb binding to cam_TT_AD_0	rpb + cam_TT_AD_0 $\xrightleftharpoons{rpb, cam_TT_AD_0, cam_TT_AD_rpb}$ cam_TT_AD_rpb	
426	ca_binding_to_cam_TT_D_rpb_on_site_A	ca binding to cam_TT_D_rpb on site A	ca + cam_TT_D_rpb $\xrightleftharpoons{ca, cam_TT_D_rpb, cam_TT_AD_rpb}$ cam_TT_AD_rpb	
427	ca_binding_to_cam_TT_A_rpb_on_site_D	ca binding to cam_TT_A_rpb on site D	ca + cam_TT_A_rpb $\xrightleftharpoons{ca, cam_TT_A_rpb, cam_TT_AD_rpb}$ cam_TT_AD_rpb	
428	tbp_binding_to_cam_TT_AD_0	tbp binding to cam_TT_AD_0	tbp + cam_TT_AD_0 $\xrightleftharpoons{tbp, cam_TT_AD_0, cam_TT_AD_tbp}$ cam_TT_AD_tbp	
429	ca_binding_to_cam_TT_D_tbp_on_site_A	ca binding to cam_TT_D_tbp on site A	ca + cam_TT_D_tbp $\xrightleftharpoons{ca, cam_TT_D_tbp, cam_TT_AD_tbp}$ cam_TT_AD_tbp	

Nº	Id	Name	Reaction Equation	SBO
430	ca_binding_to_cam_TT_A_tbp_on_site_D	ca binding to cam_TT_A_tbp on site D	ca + cam_TT_A_tbp $\xrightleftharpoons[cam_TT_AD_tbp]{ca, cam_TT_A_tbp, cam_TT_AD_tbp}$	
431	ca_binding_to_cam_TT_C_0_on_site_B	ca binding to cam_TT_C_0 on site B	ca + cam_TT_C_0 $\xrightleftharpoons[cam_TT_BC_0]{ca, cam_TT_C_0, cam_TT_BC_0}$	cam_TT_BC_0
432	ca_binding_to_cam_TT_B_0_on_site_C	ca binding to cam_TT_B_0 on site C	ca + cam_TT_B_0 $\xrightleftharpoons[cam_TT_BC_0]{ca, cam_TT_B_0, cam_TT_BC_0}$	cam_TT_BC_0
433	rpb_binding_to_cam_TT_BC_0	rpb binding to cam_TT_BC_0	rpb + cam_TT_BC_0 $\xrightleftharpoons[cam_TT_BC_rbp]{rpb, cam_TT_BC_0, cam_TT_BC_rbp}$	cam_TT_BC_rbp
434	ca_binding_to_cam_TT_C_rbp_on_site_B	ca binding to cam_TT_C_rbp on site B	ca + cam_TT_C_rbp $\xrightleftharpoons[cam_TT_BC_rbp]{ca, cam_TT_C_rbp, cam_TT_BC_rbp}$	cam_TT_BC_rbp
435	ca_binding_to_cam_TT_B_rbp_on_site_C	ca binding to cam_TT_B_rbp on site C	ca + cam_TT_B_rbp $\xrightleftharpoons[cam_TT_BC_rbp]{ca, cam_TT_B_rbp, cam_TT_BC_rbp}$	cam_TT_BC_rbp
436	tbp_binding_to_cam_TT_BC_0	tbp binding to cam_TT_BC_0	tbp + cam_TT_BC_0 $\xrightleftharpoons[cam_TT_BC_tbp]{tbp, cam_TT_BC_0, cam_TT_BC_tbp}$	cam_TT_BC_tbp
437	ca_binding_to_cam_TT_C_tbp_on_site_B	ca binding to cam_TT_C_tbp on site B	ca + cam_TT_C_tbp $\xrightleftharpoons[cam_TT_BC_tbp]{ca, cam_TT_C_tbp, cam_TT_BC_tbp}$	cam_TT_BC_tbp

Nº	Id	Name	Reaction Equation	SBO
438	ca_binding_to_cam_TT_B_tbp_on_site_C	ca binding to cam_TT_B_tbp on site C	ca + cam_TT_B_tbp $\xrightleftharpoons{ca, cam_TT_B_tbp, cam_TT_BC_tbp}$ cam_TT_BC_tbp	
439	ca_binding_to_cam_TT_D_0_on_site_B	ca binding to cam_TT_D_0 on site B	ca + cam_TT_D_0 $\xrightleftharpoons{ca, cam_TT_D_0, cam_TT_BD_0}$ cam_TT_BD_0	
440	ca_binding_to_cam_TT_B_0_on_site_D	ca binding to cam_TT_B_0 on site D	ca + cam_TT_B_0 $\xrightleftharpoons{ca, cam_TT_B_0, cam_TT_BD_0}$ cam_TT_BD_0	
441	rpb_binding_to_cam_TT_BD_0	rpb binding to cam_TT_BD_0	rpb + cam_TT_BD_0 $\xrightleftharpoons{rpb, cam_TT_BD_0, cam_TT_BD_rpb}$ cam_TT_BD_rpb	
442	ca_binding_to_cam_TT_D_rbp_on_site_B	ca binding to cam_TT_D_rbp on site B	ca + cam_TT_D_rpb $\xrightleftharpoons{ca, cam_TT_D_rpb, cam_TT_BD_rpb}$ cam_TT_BD_rpb	
443	ca_binding_to_cam_TT_B_rbp_on_site_D	ca binding to cam_TT_B_rbp on site D	ca + cam_TT_B_rpb $\xrightleftharpoons{ca, cam_TT_B_rpb, cam_TT_BD_rpb}$ cam_TT_BD_rpb	
444	tbp_binding_to_cam_TT_BD_0	tbp binding to cam_TT_BD_0	tbp + cam_TT_BD_0 $\xrightleftharpoons{tbp, cam_TT_BD_0, cam_TT_BD_tbp}$ cam_TT_BD_tbp	
445	ca_binding_to_cam_TT_D_tbp_on_site_B	ca binding to cam_TT_D_tbp on site B	ca + cam_TT_D_tbp $\xrightleftharpoons{ca, cam_TT_D_tbp, cam_TT_BD_tbp}$ cam_TT_BD_tbp	

Nº	Id	Name	Reaction Equation	SBO
446	ca_binding_to_cam_TT_B_tbp_on_site_D	ca binding to cam_TT_B_tbp on site D	ca + cam_TT_B_tbp $\xrightleftharpoons{ca, cam_TT_B_tbp, cam_TT_BD_tbp}$ cam_TT_BD_tbp	
447	ca_binding_to_cam_TT_D_0_on_site_C	ca binding to cam_TT_D_0 on site C	ca + cam_TT_D_0 $\xrightleftharpoons{ca, cam_TT_D_0, cam_TT_CD_0}$ cam_TT_CD_0	
448	ca_binding_to_cam_TT_C_0_on_site_D	ca binding to cam_TT_C_0 on site D	ca + cam_TT_C_0 $\xrightleftharpoons{ca, cam_TT_C_0, cam_TT_CD_0}$ cam_TT_CD_0	
449	rpb_binding_to_cam_TT_CD_0	rpb binding to cam_TT_CD_0	rpb + cam_TT_CD_0 $\xrightleftharpoons{rpb, cam_TT_CD_0, cam_TT_CD_rpb}$ cam_TT_CD_rpb	
450	ca_binding_to_cam_TT_D_rbp_on_site_C	ca binding to cam_TT_D_rbp on site C	ca + cam_TT_D_rbp $\xrightleftharpoons{ca, cam_TT_D_rbp, cam_TT_CD_rbp}$ cam_TT_CD_rpb	
451	ca_binding_to_cam_TT_C_rbp_on_site_D	ca binding to cam_TT_C_rbp on site D	ca + cam_TT_C_rbp $\xrightleftharpoons{ca, cam_TT_C_rbp, cam_TT_CD_rbp}$ cam_TT_CD_rpb	
452	tbp_binding_to_cam_TT_CD_0	tbp binding to cam_TT_CD_0	tbp + cam_TT_CD_0 $\xrightleftharpoons{tbp, cam_TT_CD_0, cam_TT_CD_tbp}$ cam_TT_CD_tbp	
453	ca_binding_to_cam_TT_D_tbp_on_site_C	ca binding to cam_TT_D_tbp on site C	ca + cam_TT_D_tbp $\xrightleftharpoons{ca, cam_TT_D_tbp, cam_TT_CD_tbp}$ cam_TT_CD_tbp	

Nº	Id	Name	Reaction Equation	SBO
454	ca_binding_to_cam_TT_C_tbp_on_site_D	ca binding to cam_TT_C_tbp on site D	ca + cam_TT_C_tbp $\xrightleftharpoons{ca, cam_TT_C_tbp, cam_TT_CD_tbp}$ cam_TT_CD_tbp	
455	ca_binding_to_cam_TT_BC_0_on_site_A	ca binding to cam_TT_BC_0 on site A	ca + cam_TT_BC_0 $\xrightleftharpoons{ca, cam_TT_BC_0, cam_TT_ABC_0}$ cam_TT_ABC_0	
456	ca_binding_to_cam_TT_AC_0_on_site_B	ca binding to cam_TT_AC_0 on site B	ca + cam_TT_AC_0 $\xrightleftharpoons{ca, cam_TT_AC_0, cam_TT_ABC_0}$ cam_TT_ABC_0	
457	ca_binding_to_cam_TT_AB_0_on_site_C	ca binding to cam_TT_AB_0 on site C	ca + cam_TT_AB_0 $\xrightleftharpoons{ca, cam_TT_AB_0, cam_TT_ABC_0}$ cam_TT_ABC_0	
458	rbp_binding_to_cam_TT_ABC_0	rbp binding to cam_TT_ABC_0	rbp + cam_TT_ABC_0 $\xrightleftharpoons{rbp, cam_TT_ABC_0, cam_TT_ABC_rbp}$ cam_TT_ABC_rbp	
459	ca_binding_to_cam_TT_BC_rbp_on_site_A	ca binding to cam_TT_BC_rbp on site A	ca + cam_TT_BC_rbp $\xrightleftharpoons{ca, cam_TT_BC_rbp, cam_TT_ABC_rbp}$ cam_TT_ABC_rbp	
460	ca_binding_to_cam_TT_AC_rbp_on_site_B	ca binding to cam_TT_AC_rbp on site B	ca + cam_TT_AC_rbp $\xrightleftharpoons{ca, cam_TT_AC_rbp, cam_TT_ABC_rbp}$ cam_TT_ABC_rbp	
461	ca_binding_to_cam_TT_AB_rbp_on_site_C	ca binding to cam_TT_AB_rbp on site C	ca + cam_TT_AB_rbp $\xrightleftharpoons{ca, cam_TT_AB_rbp, cam_TT_ABC_rbp}$ cam_TT_ABC_rbp	

Nº	Id	Name	Reaction Equation	SBO
462	tbp_binding_to_cam_TT_ABC_0	tbp binding to cam_TT_ABC_0	$tbp + cam_TT_ABC_0 \xrightleftharpoons{tbp, cam_TT_ABC_0, cam_TT_ABC_tbp} cam_TT_ABC_tbp$	
463	ca_binding_to_cam_TT_BC_tbp_on_site_A	ca binding to cam_TT_BC_tbp on site A	$ca + cam_TT_BC_tbp \xrightleftharpoons{ca, cam_TT_BC_tbp, cam_TT_ABC_tbp} cam_TT_ABC_tbp$	
464	ca_binding_to_cam_TT_AC_tbp_on_site_B	ca binding to cam_TT_AC_tbp on site B	$ca + cam_TT_AC_tbp \xrightleftharpoons{ca, cam_TT_AC_tbp, cam_TT_ABC_tbp} cam_TT_ABC_tbp$	
465	ca_binding_to_cam_TT_AB_tbp_on_site_C	ca binding to cam_TT_AB_tbp on site C	$ca + cam_TT_AB_tbp \xrightleftharpoons{ca, cam_TT_AB_tbp, cam_TT_ABC_tbp} cam_TT_ABC_tbp$	
466	ca_binding_to_cam_TT_BD_0_on_site_A	ca binding to cam_TT_BD_0 on site A	$ca + cam_TT_BD_0 \xrightleftharpoons{ca, cam_TT_BD_0, cam_TT_ABD_0} cam_TT_ABD_0$	
467	ca_binding_to_cam_TT_AD_0_on_site_B	ca binding to cam_TT_AD_0 on site B	$ca + cam_TT_AD_0 \xrightleftharpoons{ca, cam_TT_AD_0, cam_TT_ABD_0} cam_TT_ABD_0$	
468	ca_binding_to_cam_TT_AB_0_on_site_D	ca binding to cam_TT_AB_0 on site D	$ca + cam_TT_AB_0 \xrightleftharpoons{ca, cam_TT_AB_0, cam_TT_ABD_0} cam_TT_ABD_0$	
469	rpb_binding_to_cam_TT_ABD_0	rpb binding to cam_TT_ABD_0	$rpb + cam_TT_ABD_0 \xrightleftharpoons{rpb, cam_TT_ABD_0, cam_TT_ABD_rpb} cam_TT_ABD_rpb$	

Nº	Id	Name	Reaction Equation	SBO
470	ca_binding_to_cam_TT_BD_rbp_on_site_A	ca binding to cam_TT_BD_rbp on site A	ca + cam_TT_BD_rbp $\xrightleftharpoons{ca, cam_TT_BD_rbp, cam_TT_ABD_rbp}$	cam_TT_ABD_rbp
471	ca_binding_to_cam_TT_AD_rbp_on_site_B	ca binding to cam_TT_AD_rbp on site B	ca + cam_TT_AD_rbp $\xrightleftharpoons{ca, cam_TT_AD_rbp, cam_TT_ABD_rbp}$	cam_TT_ABD_rbp
472	ca_binding_to_cam_TT_AB_rbp_on_site_D	ca binding to cam_TT_AB_rbp on site D	ca + cam_TT_AB_rbp $\xrightleftharpoons{ca, cam_TT_AB_rbp, cam_TT_ABD_rbp}$	cam_TT_ABD_rbp
473	tbp_binding_to_cam_TT_ABD_0	tbp binding to cam_TT_ABD_0	tbp + cam_TT_ABD_0 $\xrightleftharpoons{tbp, cam_TT_ABD_0, cam_TT_ABD_tbp}$	cam_TT_ABD_tbp
474	ca_binding_to_cam_TT_BD_tbp_on_site_A	ca binding to cam_TT_BD_tbp on site A	ca + cam_TT_BD_tbp $\xrightleftharpoons{ca, cam_TT_BD_tbp, cam_TT_ABD_tbp}$	cam_TT_ABD_tbp
475	ca_binding_to_cam_TT_AD_tbp_on_site_B	ca binding to cam_TT_AD_tbp on site B	ca + cam_TT_AD_tbp $\xrightleftharpoons{ca, cam_TT_AD_tbp, cam_TT_ABD_tbp}$	cam_TT_ABD_tbp
476	ca_binding_to_cam_TT_AB_tbp_on_site_D	ca binding to cam_TT_AB_tbp on site D	ca + cam_TT_AB_tbp $\xrightleftharpoons{ca, cam_TT_AB_tbp, cam_TT_ABD_tbp}$	cam_TT_ABD_tbp
477	ca_binding_to_cam_TT_CD_0_on_site_A	ca binding to cam_TT_CD_0 on site A	ca + cam_TT_CD_0 $\xrightleftharpoons{ca, cam_TT_CD_0, cam_TT_ACD_0}$	cam_TT_ACD_0

Nº	Id	Name	Reaction Equation	SBO
478	ca_binding_to_cam_TT_AD_0_on_site_C	ca binding to cam_TT_AD_0 on site C	ca+cam_TT_AD_0 $\xrightleftharpoons{ca, cam_TT_AD_0, cam_TT_ACD_0}$ cam_TT_ACD_0	
479	ca_binding_to_cam_TT_AC_0_on_site_D	ca binding to cam_TT_AC_0 on site D	ca+cam_TT_AC_0 $\xrightleftharpoons{ca, cam_TT_AC_0, cam_TT_ACD_0}$ cam_TT_ACD_0	
480	rpb_binding_to_cam_TT_ACD_0	rpb binding to cam_TT_ACD_0	rpb+cam_TT_ACD_0 $\xrightleftharpoons{rpb, cam_TT_ACD_0, cam_TT_ACD_rpb}$ cam_TT_ACD_rpb	
481	ca_binding_to_cam_TT_CD_rbp_on_site_A	ca binding to cam_TT_CD_rbp on site A	ca+cam_TT_CD_rbp $\xrightleftharpoons{ca, cam_TT_CD_rbp, cam_TT_ACD_rbp}$ cam_TT_ACD_rbp	
482	ca_binding_to_cam_TT_AD_rbp_on_site_C	ca binding to cam_TT_AD_rbp on site C	ca+cam_TT_AD_rbp $\xrightleftharpoons{ca, cam_TT_AD_rbp, cam_TT_ACD_rbp}$ cam_TT_ACD_rbp	
483	ca_binding_to_cam_TT_AC_rbp_on_site_D	ca binding to cam_TT_AC_rbp on site D	ca+cam_TT_AC_rbp $\xrightleftharpoons{ca, cam_TT_AC_rbp, cam_TT_ACD_rbp}$ cam_TT_ACD_rbp	
484	tbp_binding_to_cam_TT_ACD_0	tbp binding to cam_TT_ACD_0	tbp+cam_TT_ACD_0 $\xrightleftharpoons{tbp, cam_TT_ACD_0, cam_TT_ACD_tbp}$ cam_TT_ACD_tbp	
485	ca_binding_to_cam_TT_CD_tbp_on_site_A	ca binding to cam_TT_CD_tbp on site A	ca+cam_TT_CD_tbp $\xrightleftharpoons{ca, cam_TT_CD_tbp, cam_TT_ACD_tbp}$ cam_TT_ACD_tbp	

Nº	Id	Name	Reaction Equation	SBO
486	ca_binding_to_cam_TT_AD_tbp_on_site_C	ca binding to cam_TT_AD_tbp on site C	ca + cam_TT_AD_tbp $\xrightleftharpoons{ca, cam_TT_AD_tbp, cam_TT_ACD_tbp}$ cam_TT_ACD_tbp	
487	ca_binding_to_cam_TT_AC_tbp_on_site_D	ca binding to cam_TT_AC_tbp on site D	ca + cam_TT_AC_tbp $\xrightleftharpoons{ca, cam_TT_AC_tbp, cam_TT_ACD_tbp}$ cam_TT_ACD_tbp	
488	ca_binding_to_cam_TT_CD_0_on_site_B	ca binding to cam_TT_CD_0 on site B	ca + cam_TT_CD_0 $\xrightleftharpoons{ca, cam_TT_CD_0, cam_TT_BCD_0}$ cam_TT_BCD_0	
489	ca_binding_to_cam_TT_BD_0_on_site_C	ca binding to cam_TT_BD_0 on site C	ca + cam_TT_BD_0 $\xrightleftharpoons{ca, cam_TT_BD_0, cam_TT_BCD_0}$ cam_TT_BCD_0	
490	ca_binding_to_cam_TT_BC_0_on_site_D	ca binding to cam_TT_BC_0 on site D	ca + cam_TT_BC_0 $\xrightleftharpoons{ca, cam_TT_BC_0, cam_TT_BCD_0}$ cam_TT_BCD_0	
491	rbp_binding_to_cam_TT_BCD_0	rbp binding to cam_TT_BCD_0	rbp + cam_TT_BCD_0 $\xrightleftharpoons{rbp, cam_TT_BCD_0, cam_TT_BCD_rbp}$ cam_TT_BCD_rbp	
492	ca_binding_to_cam_TT_CD_rbp_on_site_B	ca binding to cam_TT_CD_rbp on site B	ca + cam_TT_CD_rbp $\xrightleftharpoons{ca, cam_TT_CD_rbp, cam_TT_BCD_rbp}$ cam_TT_BCD_rbp	
493	ca_binding_to_cam_TT_BD_rbp_on_site_C	ca binding to cam_TT_BD_rbp on site C	ca + cam_TT_BD_rbp $\xrightleftharpoons{ca, cam_TT_BD_rbp, cam_TT_BCD_rbp}$ cam_TT_BCD_rbp	

Nº	Id	Name	Reaction Equation	SBO
494	ca_binding_to_cam_TT_BC_rbp_on_site_D	ca binding to cam_TT_BC_rbp on site D	ca+cam_TT_BC_rbp $\xrightleftharpoons{ca, cam_TT_BC_rbp, cam_TT_BCD_rbp}$	cam_TT_BCD_rbp
495	tbp_binding_to_cam_TT_BCD_0	tbp binding to cam_TT_BCD_0	tbp+cam_TT_BCD_0 $\xrightleftharpoons{tbp, cam_TT_BCD_0, cam_TT_BCD_tbp}$	cam_TT_BCD_tbp
496	ca_binding_to_cam_TT_CD_tbp_on_site_B	ca binding to cam_TT_CD_tbp on site B	ca+cam_TT_CD_tbp $\xrightleftharpoons{ca, cam_TT_CD_tbp, cam_TT_BCD_tbp}$	cam_TT_BCD_tbp
497	ca_binding_to_cam_TT_BD_tbp_on_site_C	ca binding to cam_TT_BD_tbp on site C	ca+cam_TT_BD_tbp $\xrightleftharpoons{ca, cam_TT_BD_tbp, cam_TT_BCD_tbp}$	cam_TT_BCD_tbp
498	ca_binding_to_cam_TT_BC_tbp_on_site_D	ca binding to cam_TT_BC_tbp on site D	ca+cam_TT_BC_tbp $\xrightleftharpoons{ca, cam_TT_BC_tbp, cam_TT_BCD_tbp}$	cam_TT_BCD_tbp
499	ca_binding_to_cam_TT_BCD_0_on_site_A	ca binding to cam_TT_BCD_0 on site A	ca+cam_TT_BCD_0 $\xrightleftharpoons{ca, cam_TT_BCD_0, cam_TT_ABCD_0}$	cam_TT_ABCD_0
500	ca_binding_to_cam_TT_ACD_0_on_site_B	ca binding to cam_TT_ACD_0 on site B	ca+cam_TT_ACD_0 $\xrightleftharpoons{ca, cam_TT_ACD_0, cam_TT_ABCD_0}$	cam_TT_ABCD_0
501	ca_binding_to_cam_TT_ABD_0_on_site_C	ca binding to cam_TT_ABD_0 on site C	ca+cam_TT_ABD_0 $\xrightleftharpoons{ca, cam_TT_ABD_0, cam_TT_ABCD_0}$	cam_TT_ABCD_0

Nº	Id	Name	Reaction Equation	SBO
502	ca_binding_to_cam_TT_ABC_0_on_site_D	ca binding to cam_TT_ABC_0 on site D	ca+cam_TT_ABC_0 $\xrightleftharpoons{ca, cam_TT_ABC_0, cam_TT_ABCD_0}$ cam_TT_ABCD_0	
503	rpb_binding_to_cam_TT_ABCD_0	rpb binding to cam_TT_ABCD_0	rpb+cam_TT_ABCD_0 $\xrightleftharpoons{rpb, cam_TT_ABCD_0, cam_TT_ABCD_rpb}$ cam_TT_ABCD_rpb	
504	ca_binding_to_cam_TT_BCD_rbp_on_site_A	ca binding to cam_TT_BCD_rbp on site A	ca+cam_TT_BCD_rbp $\xrightleftharpoons{ca, cam_TT_BCD_rbp, cam_TT_ABCD_rbp}$ cam_TT_ABCD_rbp	
505	ca_binding_to_cam_TT_ACD_rbp_on_site_B	ca binding to cam_TT_ACD_rbp on site B	ca+cam_TT_ACD_rbp $\xrightleftharpoons{ca, cam_TT_ACD_rbp, cam_TT_ABCD_rbp}$ cam_TT_ABCD_rbp	
506	ca_binding_to_cam_TT_ABD_rbp_on_site_C	ca binding to cam_TT_ABD_rbp on site C	ca+cam_TT_ABD_rbp $\xrightleftharpoons{ca, cam_TT_ABD_rbp, cam_TT_ABCD_rbp}$ cam_TT_ABCD_rbp	
507	ca_binding_to_cam_TT_ABC_rbp_on_site_D	ca binding to cam_TT_ABC_rbp on site D	ca+cam_TT_ABC_rbp $\xrightleftharpoons{ca, cam_TT_ABC_rbp, cam_TT_ABCD_rbp}$ cam_TT_ABCD_rbp	
508	tbp_binding_to_cam_TT_ABCD_0	tbp binding to cam_TT_ABCD_0	tbp+cam_TT_ABCD_0 $\xrightleftharpoons{tbp, cam_TT_ABCD_0, cam_TT_ABCD_tbp}$ cam_TT_ABCD_tbp	
509	ca_binding_to_cam_TT_BCD_tbp_on_site_A	ca binding to cam_TT_BCD_tbp on site A	ca+cam_TT_BCD_tbp $\xrightleftharpoons{ca, cam_TT_BCD_tbp, cam_TT_ABCD_tbp}$ cam_TT_ABCD_tbp	

Nº	Id	Name	Reaction Equation	SBO
510	ca_binding_to-_cam_TT_ACD_tbp-_on_site_B	ca binding to cam_TT_ACD_tbp on site B	ca+cam_TT_ACD_tbp $\xrightleftharpoons{ca, cam_TT_ACD_tbp, cam_TT_ABCD_tbp}$	cam_TT_ABCD_tbp
511	ca_binding_to-_cam_TT_ABD_tbp-_on_site_C	ca binding to cam_TT_ABD_tbp on site C	ca+cam_TT_ABD_tbp $\xrightleftharpoons{ca, cam_TT_ABD_tbp, cam_TT_ABCD_tbp}$	cam_TT_ABCD_tbp
512	ca_binding_to-_cam_TT_ABC_tbp-_on_site_D	ca binding to cam_TT_ABC_tbp on site D	ca+cam_TT_ABC_tbp $\xrightleftharpoons{ca, cam_TT_ABC_tbp, cam_TT_ABCD_tbp}$	cam_TT_ABCD_tbp
513	Transition-_from_cam_RT_0-_0_to_cam_RR_0_0	Transition from cam_RT_0_0 to cam_RR_0_0	cam_RT_0_0 $\xrightleftharpoons{cam_RT_0_0, cam_RR_0_0}$	cam_RR_0_0
514	Transition-_from_cam_RT_A-_0_to_cam_RR_A_0	Transition from cam_RT_A_0 to cam_RR_A_0	cam_RT_A_0 $\xrightleftharpoons{cam_RT_A_0, cam_RR_A_0}$	cam_RR_A_0
515	Transition-_from_cam_RT_B-_0_to_cam_RR_B_0	Transition from cam_RT_B_0 to cam_RR_B_0	cam_RT_B_0 $\xrightleftharpoons{cam_RT_B_0, cam_RR_B_0}$	cam_RR_B_0
516	Transition-_from_cam_RT_C-_0_to_cam_RR_C_0	Transition from cam_RT_C_0 to cam_RR_C_0	cam_RT_C_0 $\xrightleftharpoons{cam_RT_C_0, cam_RR_C_0}$	cam_RR_C_0
517	Transition-_from_cam_RT_D-_0_to_cam_RR_D_0	Transition from cam_RT_D_0 to cam_RR_D_0	cam_RT_D_0 $\xrightleftharpoons{cam_RT_D_0, cam_RR_D_0}$	cam_RR_D_0

Nº	Id	Name	Reaction Equation	SBO
518	Transition-_from_cam_RT_AB-_0_to_cam_RR_AB-_0	Transition from cam_RT_AB_0 to cam_RR_AB_0	$\text{cam_RT_AB_0} \xrightleftharpoons{\text{cam_RT_AB_0, cam_RR_AB_0}} \text{cam_RR_AB_0}$	
519	Transition-_from_cam_RT_AC-_0_to_cam_RR_AC-_0	Transition from cam_RT_AC_0 to cam_RR_AC_0	$\text{cam_RT_AC_0} \xrightleftharpoons{\text{cam_RT_AC_0, cam_RR_AC_0}} \text{cam_RR_AC_0}$	
520	Transition-_from_cam_RT_AD-_0_to_cam_RR_AD-_0	Transition from cam_RT_AD_0 to cam_RR_AD_0	$\text{cam_RT_AD_0} \xrightleftharpoons{\text{cam_RT_AD_0, cam_RR_AD_0}} \text{cam_RR_AD_0}$	
521	Transition-_from_cam_RT_BC-_0_to_cam_RR_BC-_0	Transition from cam_RT_BC_0 to cam_RR_BC_0	$\text{cam_RT_BC_0} \xrightleftharpoons{\text{cam_RT_BC_0, cam_RR_BC_0}} \text{cam_RR_BC_0}$	
522	Transition-_from_cam_RT_BD-_0_to_cam_RR_BD-_0	Transition from cam_RT_BD_0 to cam_RR_BD_0	$\text{cam_RT_BD_0} \xrightleftharpoons{\text{cam_RT_BD_0, cam_RR_BD_0}} \text{cam_RR_BD_0}$	
523	Transition-_from_cam_RT_CD-_0_to_cam_RR_CD-_0	Transition from cam_RT_CD_0 to cam_RR_CD_0	$\text{cam_RT_CD_0} \xrightleftharpoons{\text{cam_RT_CD_0, cam_RR_CD_0}} \text{cam_RR_CD_0}$	

Nº	Id	Name	Reaction Equation	SBO
524	Transition_from_cam_RT_ABC_0_to_cam_RR_ABC_0	Transition from cam_RT_ABC_0 to cam_RR_ABC_0	$\text{cam_RT_ABC_0} \xrightleftharpoons{\text{cam_RT_ABC_0, cam_RR_ABC_0}} \text{cam_RR_ABC_0}$	
525	Transition_from_cam_RT_ABD_0_to_cam_RR_ABD_0	Transition from cam_RT_ABD_0 to cam_RR_ABD_0	$\text{cam_RT_ABD_0} \xrightleftharpoons{\text{cam_RT_ABD_0, cam_RR_ABD_0}} \text{cam_RR_ABD_0}$	
526	Transition_from_cam_RT_ACD_0_to_cam_RR_ACD_0	Transition from cam_RT_ACD_0 to cam_RR_ACD_0	$\text{cam_RT_ACD_0} \xrightleftharpoons{\text{cam_RT_ACD_0, cam_RR_ACD_0}} \text{cam_RR_ACD_0}$	
527	Transition_from_cam_RT_BCD_0_to_cam_RR_BCD_0	Transition from cam_RT_BCD_0 to cam_RR_BCD_0	$\text{cam_RT_BCD_0} \xrightleftharpoons{\text{cam_RT_BCD_0, cam_RR_BCD_0}} \text{cam_RR_BCD_0}$	
528	Transition_from_cam_RT_ABCD_0_to_cam_RR_ABCD_0	Transition from cam_RT_ABCD_0 to cam_RR_ABCD_0	$\text{cam_RT_ABCD_0} \xrightleftharpoons{\text{cam_RT_ABCD_0, cam_RR_ABCD_0}} \text{cam_RR_ABCD_0}$	
529	Transition_from_cam_TR_0_0_to_cam_RR_0_0	Transition from cam_TR_0_0 to cam_RR_0_0	$\text{cam_TR_0_0} \xrightleftharpoons{\text{cam_TR_0_0, cam_RR_0_0}} \text{cam_RR_0_0}$	
530	Transition_from_cam_TR_A_0_to_cam_RR_A_0	Transition from cam_TR_A_0 to cam_RR_A_0	$\text{cam_TR_A_0} \xrightleftharpoons{\text{cam_TR_A_0, cam_RR_A_0}} \text{cam_RR_A_0}$	

Nº	Id	Name	Reaction Equation	SBO
531	Transition-_from_cam.TR.B-_0_to_cam.RR.B_0	Transition from cam.TR.B_0 to cam.RR.B_0	$\text{cam_TR_B_0} \xrightleftharpoons{\text{cam_TR_B_0, cam_RR_B_0}} \text{cam_RR_B_0}$	
532	Transition-_from_cam.TR.C-_0_to_cam.RR.C_0	Transition from cam.TR.C_0 to cam.RR.C_0	$\text{cam_TR_C_0} \xrightleftharpoons{\text{cam_TR_C_0, cam_RR_C_0}} \text{cam_RR_C_0}$	
533	Transition-_from_cam.TR.D-_0_to_cam.RR.D_0	Transition from cam.TR.D_0 to cam.RR.D_0	$\text{cam_TR_D_0} \xrightleftharpoons{\text{cam_TR_D_0, cam_RR_D_0}} \text{cam_RR_D_0}$	
534	Transition-_from_cam.TR.AB-_0_to_cam.RR.AB-_0	Transition from cam.TR.AB_0 to cam.RR.AB_0	$\text{cam_TR_AB_0} \xrightleftharpoons{\text{cam_TR_AB_0, cam_RR_AB_0}} \text{cam_RR_AB_0}$	
535	Transition-_from_cam.TR.AC-_0_to_cam.RR.AC-_0	Transition from cam.TR.AC_0 to cam.RR.AC_0	$\text{cam_TR_AC_0} \xrightleftharpoons{\text{cam_TR_AC_0, cam_RR_AC_0}} \text{cam_RR_AC_0}$	
536	Transition-_from_cam.TR.AD-_0_to_cam.RR.AD-_0	Transition from cam.TR.AD_0 to cam.RR.AD_0	$\text{cam_TR_AD_0} \xrightleftharpoons{\text{cam_TR_AD_0, cam_RR_AD_0}} \text{cam_RR_AD_0}$	
537	Transition-_from_cam.TR.BC-_0_to_cam.RR.BC-_0	Transition from cam.TR.BC_0 to cam.RR.BC_0	$\text{cam_TR_BC_0} \xrightleftharpoons{\text{cam_TR_BC_0, cam_RR_BC_0}} \text{cam_RR_BC_0}$	

Nº	Id	Name	Reaction Equation	SBO
538	Transition-_from_cam_TR_BD-_0_to_cam_RR_BD-_0	Transition from cam.TR.BD.0 to cam.RR.BD.0	cam.TR.BD.0 $\xrightleftharpoons{\text{cam.TR.BD.0, cam.RR.BD.0}}$ cam.RR.BD.0	
539	Transition-_from_cam_TR_CD-_0_to_cam_RR_CD-_0	Transition from cam.TR.CD.0 to cam.RR.CD.0	cam.TR.CD.0 $\xrightleftharpoons{\text{cam.TR.CD.0, cam.RR.CD.0}}$ cam.RR.CD.0	
540	Transition-_from_cam_TR_ABC-_0_to_cam_RR_ABC-_0	Transition from cam.TR.ABC.0 to cam.RR.ABC.0	cam.TR.ABC.0 $\xrightleftharpoons{\text{cam.TR.ABC.0, cam.RR.ABC.0}}$ cam.RR.ABC.0	
541	Transition-_from_cam_TR_ABD-_0_to_cam_RR_ABD-_0	Transition from cam.TR.ABD.0 to cam.RR.ABD.0	cam.TR.ABD.0 $\xrightleftharpoons{\text{cam.TR.ABD.0, cam.RR.ABD.0}}$ cam.RR.ABD.0	
542	Transition-_from_cam_TR_ACD-_0_to_cam_RR_ACD-_0	Transition from cam.TR.ACD.0 to cam.RR.ACD.0	cam.TR.ACD.0 $\xrightleftharpoons{\text{cam.TR.ACD.0, cam.RR.ACD.0}}$ cam.RR.ACD.0	
543	Transition-_from_cam_TR_BCD-_0_to_cam_RR_BCD-_0	Transition from cam.TR.BCD.0 to cam.RR.BCD.0	cam.TR.BCD.0 $\xrightleftharpoons{\text{cam.TR.BCD.0, cam.RR.BCD.0}}$ cam.RR.BCD.0	

Nº	Id	Name	Reaction Equation	SBO
544	Transition-_from_cam_TR-_ABCD_0_to_cam_RR_ABCD_0	Transition from cam.TR.ABCD_0 to cam.RR.ABCD_0	cam.TR.ABCD_0 $\xrightarrow{\text{cam_TR_ABCD_0, cam_RR_ABCD_0}}$ cam.RR.ABCD_0	
545	Transition-_from_cam_TT_0-_0_to_cam_RT_0_0	Transition from cam.TT_0_0 to cam.RT_0_0	cam.TT_0_0 $\xrightleftharpoons{\text{cam_TT_0_0, cam_RT_0_0}}$ cam.RT_0_0	
546	Transition-_from_cam_TT_0-_0_to_cam_TR_0_0	Transition from cam.TT_0_0 to cam.TR_0_0	cam.TT_0_0 $\xrightleftharpoons{\text{cam_TT_0_0, cam_TR_0_0}}$ cam.TR_0_0	
547	Transition-_from_cam_TT_A-_0_to_cam_RT_A_0	Transition from cam.TT_A_0 to cam.RT_A_0	cam.TT_A_0 $\xrightleftharpoons{\text{cam_TT_A_0, cam_RT_A_0}}$ cam.RT_A_0	
548	Transition-_from_cam_TT_A-_0_to_cam_TR_A_0	Transition from cam.TT_A_0 to cam.TR_A_0	cam.TT_A_0 $\xrightleftharpoons{\text{cam_TT_A_0, cam_TR_A_0}}$ cam.TR_A_0	
549	Transition-_from_cam_TT_B-_0_to_cam_RT_B_0	Transition from cam.TT_B_0 to cam.RT_B_0	cam.TT_B_0 $\xrightleftharpoons{\text{cam_TT_B_0, cam_RT_B_0}}$ cam.RT_B_0	
550	Transition-_from_cam_TT_B-_0_to_cam_TR_B_0	Transition from cam.TT_B_0 to cam.TR_B_0	cam.TT_B_0 $\xrightleftharpoons{\text{cam_TT_B_0, cam_TR_B_0}}$ cam.TR_B_0	
551	Transition-_from_cam_TT_C-_0_to_cam_RT_C_0	Transition from cam.TT_C_0 to cam.RT_C_0	cam.TT_C_0 $\xrightleftharpoons{\text{cam_TT_C_0, cam_RT_C_0}}$ cam.RT_C_0	

Nº	Id	Name	Reaction Equation	SBO
552	Transition-_from_cam_TT_C-_0_to_cam_TR_C_0	Transition from cam_TT_C_0 to cam_TR_C_0	$\text{cam_TT_C_0} \xrightleftharpoons{\text{cam_TT_C_0, cam_TR_C_0}} \text{cam_TR_C_0}$	
553	Transition-_from_cam_TT_D-_0_to_cam_RT_D_0	Transition from cam_TT_D_0 to cam_RT_D_0	$\text{cam_TT_D_0} \xrightleftharpoons{\text{cam_TT_D_0, cam_RT_D_0}} \text{cam_RT_D_0}$	
554	Transition-_from_cam_TT_D-_0_to_cam_TR_D_0	Transition from cam_TT_D_0 to cam_TR_D_0	$\text{cam_TT_D_0} \xrightleftharpoons{\text{cam_TT_D_0, cam_TR_D_0}} \text{cam_TR_D_0}$	
555	Transition-_from_cam_TT_AB-_0_to_cam_RT_AB-_0	Transition from cam_TT_AB_0 to cam_RT_AB_0	$\text{cam_TT_AB_0} \xrightleftharpoons{\text{cam_TT_AB_0, cam_RT_AB_0}} \text{cam_RT_AB_0}$	
556	Transition-_from_cam_TT_AB-_0_to_cam_TR_AB-_0	Transition from cam_TT_AB_0 to cam_TR_AB_0	$\text{cam_TT_AB_0} \xrightleftharpoons{\text{cam_TT_AB_0, cam_TR_AB_0}} \text{cam_TR_AB_0}$	
557	Transition-_from_cam_TT_AC-_0_to_cam_RT_AC-_0	Transition from cam_TT_AC_0 to cam_RT_AC_0	$\text{cam_TT_AC_0} \xrightleftharpoons{\text{cam_TT_AC_0, cam_RT_AC_0}} \text{cam_RT_AC_0}$	
558	Transition-_from_cam_TT_AC-_0_to_cam_TR_AC-_0	Transition from cam_TT_AC_0 to cam_TR_AC_0	$\text{cam_TT_AC_0} \xrightleftharpoons{\text{cam_TT_AC_0, cam_TR_AC_0}} \text{cam_TR_AC_0}$	

Nº	Id	Name	Reaction Equation	SBO
559	Transition-_from_cam_TT_AD-_0_to_cam_RT_AD-_0	Transition from cam_TT_AD_0 to cam_RT_AD_0	cam_TT_AD_0 $\xrightleftharpoons{\text{cam_TT_AD_0, cam_RT_AD_0}}$ cam_RT_AD_0	
560	Transition-_from_cam_TT_AD-_0_to_cam_TR_AD-_0	Transition from cam_TT_AD_0 to cam_TR_AD_0	cam_TT_AD_0 $\xrightleftharpoons{\text{cam_TT_AD_0, cam_TR_AD_0}}$ cam_TR_AD_0	
561	Transition-_from_cam_TT_BC-_0_to_cam_RT_BC-_0	Transition from cam_TT_BC_0 to cam_RT_BC_0	cam_TT_BC_0 $\xrightleftharpoons{\text{cam_TT_BC_0, cam_RT_BC_0}}$ cam_RT_BC_0	
562	Transition-_from_cam_TT_BC-_0_to_cam_TR_BC-_0	Transition from cam_TT_BC_0 to cam_TR_BC_0	cam_TT_BC_0 $\xrightleftharpoons{\text{cam_TT_BC_0, cam_TR_BC_0}}$ cam_TR_BC_0	
563	Transition-_from_cam_TT_BD-_0_to_cam_RT_BD-_0	Transition from cam_TT_BD_0 to cam_RT_BD_0	cam_TT_BD_0 $\xrightleftharpoons{\text{cam_TT_BD_0, cam_RT_BD_0}}$ cam_RT_BD_0	
564	Transition-_from_cam_TT_BD-_0_to_cam_TR_BD-_0	Transition from cam_TT_BD_0 to cam_TR_BD_0	cam_TT_BD_0 $\xrightleftharpoons{\text{cam_TT_BD_0, cam_TR_BD_0}}$ cam_TR_BD_0	

Nº	Id	Name	Reaction Equation	SBO
565	Transition-_from.cam.TT_CD-_0_to.cam.RT_CD-_0	Transition from cam.TT_CD_0 to cam.RT_CD_0	cam.TT_CD_0 $\xrightleftharpoons{\text{cam_TT_CD_0, cam_RT_CD_0}}$ cam.RT_CD_0	
566	Transition-_from.cam.TT_CD-_0_to.cam.TR_CD-_0	Transition from cam.TT_CD_0 to cam.TR_CD_0	cam.TT_CD_0 $\xrightleftharpoons{\text{cam_TT_CD_0, cam_TR_CD_0}}$ cam.TR_CD_0	
567	Transition-_from.cam.TT_ABC-_0_to.cam.RT_ABC_0	Transition from cam.TT_ABC_0 to cam.RT_ABC_0	cam.TT_ABC_0 $\xrightleftharpoons{\text{cam_TT_ABC_0, cam_RT_ABC_0}}$ cam.RT_ABC_0	
568	Transition-_from.cam.TT_ABC-_0_to.cam.TR_ABC_0	Transition from cam.TT_ABC_0 to cam.TR_ABC_0	cam.TT_ABC_0 $\xrightleftharpoons{\text{cam_TT_ABC_0, cam_TR_ABC_0}}$ cam.TR_ABC_0	
569	Transition-_from.cam.TT_ABD-_0_to.cam.RT_ABD_0	Transition from cam.TT_ABD_0 to cam.RT_ABD_0	cam.TT_ABD_0 $\xrightleftharpoons{\text{cam_TT_ABD_0, cam_RT_ABD_0}}$ cam.RT_ABD_0	
570	Transition-_from.cam.TT_ABD-_0_to.cam.TR_ABD_0	Transition from cam.TT_ABD_0 to cam.TR_ABD_0	cam.TT_ABD_0 $\xrightleftharpoons{\text{cam_TT_ABD_0, cam_TR_ABD_0}}$ cam.TR_ABD_0	

Nº	Id	Name	Reaction Equation	SBO
571	Transition-_from_cam_TT-_ACD_0_to_cam-_RT_ACD_0	Transition from cam_TT_ACD_0 to cam_RT-_ACD_0	cam_TT_ACD_0 $\xrightleftharpoons{\text{cam_TT_ACD_0, cam_RT_ACD_0}}$ cam_RT_ACD_0	
572	Transition-_from_cam_TT-_ACD_0_to_cam-_TR_ACD_0	Transition from cam_TT_ACD_0 to cam_TR-_ACD_0	cam_TT_ACD_0 $\xrightleftharpoons{\text{cam_TT_ACD_0, cam_TR_ACD_0}}$ cam_TR_ACD_0	
573	Transition-_from_cam_TT-_BCD_0_to_cam-_RT_BCD_0	Transition from cam_TT_BCD_0 to cam_RT-_BCD_0	cam_TT_BCD_0 $\xrightleftharpoons{\text{cam_TT_BCD_0, cam_RT_BCD_0}}$ cam_RT_BCD_0	
574	Transition-_from_cam_TT-_BCD_0_to_cam-_TR_BCD_0	Transition from cam_TT_BCD_0 to cam_TR-_BCD_0	cam_TT_BCD_0 $\xrightleftharpoons{\text{cam_TT_BCD_0, cam_TR_BCD_0}}$ cam_TR_BCD_0	
575	Transition-_from_cam_TT-_ABCD_0_to_cam-_RT_ABCD_0	Transition from cam_TT_ABCD_0 to cam_RT_ABCD_0	cam_TT_ABCD_0 $\xrightleftharpoons{\text{cam_TT_ABCD_0, cam_RT_ABCD_0}}$ cam_RT_ABCD_0	
576	Transition-_from_cam_TT-_ABCD_0_to_cam-_TR_ABCD_0	Transition from cam_TT_ABCD_0 to cam_TR_ABCD_0	cam_TT_ABCD_0 $\xrightleftharpoons{\text{cam_TT_ABCD_0, cam_TR_ABCD_0}}$ cam_TR_ABCD_0	

7.1 Reaction rbp_binding_to_cam_RR_0_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_0_0

Reaction equation



Reactants

Table 6: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RR_0_0	cam_RR_0_0	

Modifiers

Table 7: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RR_0_0	cam_RR_0_0	
cam_RR_0_rbp	cam_RR_0_rbp	

Product

Table 8: Properties of each product.

Id	Name	SBO
cam_RR_0_rbp	cam_RR_0_rbp	

Kinetic Law

Derived unit contains undeclared units

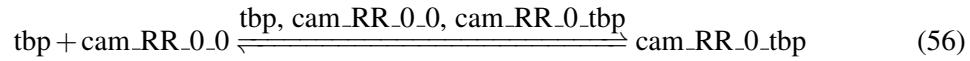
$$v_1 = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_0_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_0_rbp}]) \quad (55)$$

7.2 Reaction tbp_binding_to_cam_RR_0_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_0_0

Reaction equation



Reactants

Table 9: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_0_0	cam_RR_0_0	

Modifiers

Table 10: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_0_0	cam_RR_0_0	
cam_RR_0_tbp	cam_RR_0_tbp	

Product

Table 11: Properties of each product.

Id	Name	SBO
cam_RR_0_tbp	cam_RR_0_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_2 = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_0_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_0_tbp}]) \quad (57)$$

7.3 Reaction ca_binding_to_cam_RR_0_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_0 on site A

Reaction equation



Reactants

Table 12: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_0	cam_RR_0_0	

Modifiers

Table 13: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_0	cam_RR_0_0	
cam_RR_A_0	cam_RR_A_0	

Product

Table 14: Properties of each product.

Id	Name	SBO
cam_RR_A_0	cam_RR_A_0	

Kinetic Law

Derived unit contains undeclared units

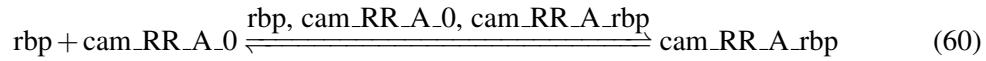
$$v_3 = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_0}] - \text{koff_AR} \cdot [\text{cam_RR_A_0}]) \quad (59)$$

7.4 Reaction rbp_binding_to_cam_RR_A_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam.RR.A.0

Reaction equation



Reactants

Table 15: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RR_A_0	cam_RR_A_0	

Modifiers

Table 16: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RR_A_0	cam_RR_A_0	
cam_RR_A_rbp	cam_RR_A_rbp	

Product

Table 17: Properties of each product.

Id	Name	SBO
cam_RR_A_rbp	cam_RR_A_rbp	

Kinetic Law

Derived unit contains undeclared units

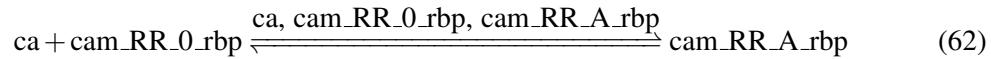
$$v_4 = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_A_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_A_rbp}]) \quad (61)$$

7.5 Reaction ca_binding_to_cam_RR_0_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_rbp on site A

Reaction equation



Reactants

Table 18: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_rbp	cam_RR_0_rbp	

Modifiers

Table 19: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_rbp	cam_RR_0_rbp	
cam_RR_A_rbp	cam_RR_A_rbp	

Product

Table 20: Properties of each product.

Id	Name	SBO
cam_RR_A_rbp	cam_RR_A_rbp	

Kinetic Law

Derived unit contains undeclared units

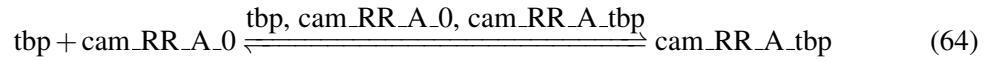
$$v_5 = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_rbp}] - \text{koff_AR} \cdot [\text{cam_RR_A_rbp}]) \quad (63)$$

7.6 Reaction tbp_binding_to_cam_RR_A_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_A_0

Reaction equation



Reactants

Table 21: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_A_0	cam_RR_A_0	

Modifiers

Table 22: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_A_0	cam_RR_A_0	
cam_RR_A_tbp	cam_RR_A_tbp	

Product

Table 23: Properties of each product.

Id	Name	SBO
cam_RR_A_tbp	cam_RR_A_tbp	

Kinetic Law

Derived unit contains undeclared units

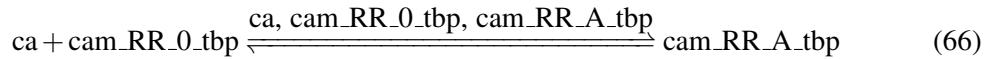
$$v_6 = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_A_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_A_tbp}]) \quad (65)$$

7.7 Reaction ca_binding_to_cam_RR_0_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_tbp on site A

Reaction equation



Reactants

Table 24: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_tbp	cam_RR_0_tbp	

Modifiers

Table 25: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_tbp	cam_RR_0_tbp	
cam_RR_A_tbp	cam_RR_A_tbp	

Product

Table 26: Properties of each product.

Id	Name	SBO
cam_RR_A_tbp	cam_RR_A_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_7 = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_tbp}] - \text{koff_AR} \cdot [\text{cam_RR_A_tbp}]) \quad (67)$$

7.8 Reaction ca_binding_to_cam_RR_0_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_0 on site B

Reaction equation



Reactants

Table 27: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_O_0	cam_RR_O_0	

Modifiers

Table 28: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_O_0	cam_RR_O_0	
cam_RR_B_0	cam_RR_B_0	

Product

Table 29: Properties of each product.

Id	Name	SBO
cam_RR_B_0	cam_RR_B_0	

Kinetic Law

Derived unit contains undeclared units

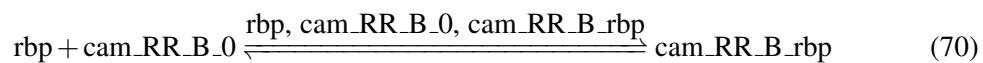
$$v_8 = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_O_0}] - \text{koff_BR} \cdot [\text{cam_RR_B_0}]) \quad (69)$$

7.9 Reaction rbp_binding_to_cam_RR_B_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_B_0

Reaction equation



Reactants

Table 30: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RR_B_0	cam_RR_B_0	

Modifiers

Table 31: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RR_B_0	cam_RR_B_0	
cam_RR_B_rbp	cam_RR_B_rbp	

Product

Table 32: Properties of each product.

Id	Name	SBO
cam_RR_B_rbp	cam_RR_B_rbp	

Kinetic Law

Derived unit contains undeclared units

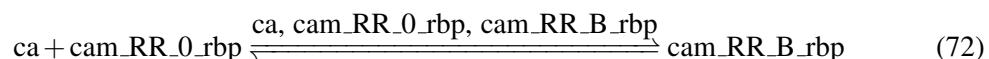
$$v_9 = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_B_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_B_rbp}]) \quad (71)$$

7.10 Reaction ca_binding_to_cam_RR_0_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_rbp on site B

Reaction equation



Reactants

Table 33: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_rbp	cam_RR_0_rbp	

Modifiers

Table 34: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_rbp	cam_RR_0_rbp	
cam_RR_B_rbp	cam_RR_B_rbp	

Product

Table 35: Properties of each product.

Id	Name	SBO
cam_RR_B_rbp	cam_RR_B_rbp	

Kinetic Law

Derived unit contains undeclared units

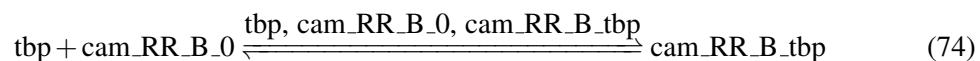
$$v_{10} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_rbp}] - \text{koff_BR} \cdot [\text{cam_RR_B_rbp}]) \quad (73)$$

7.11 Reaction tbp_binding_to_cam_RR_B_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_B_0

Reaction equation



Reactants

Table 36: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_B_0	cam_RR_B_0	

Modifiers

Table 37: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_B_0	cam_RR_B_0	
cam_RR_B_tbp	cam_RR_B_tbp	

Product

Table 38: Properties of each product.

Id	Name	SBO
cam_RR_B_tbp	cam_RR_B_tbp	

Kinetic Law

Derived unit contains undeclared units

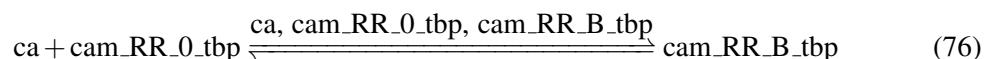
$$v_{11} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_B_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_B_tbp}]) \quad (75)$$

7.12 Reaction ca_binding_to_cam_RR_0_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_tbp on site B

Reaction equation



Reactants

Table 39: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_tbp	cam_RR_0_tbp	

Modifiers

Table 40: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_tbp	cam_RR_0_tbp	
cam_RR_B_tbp	cam_RR_B_tbp	

Product

Table 41: Properties of each product.

Id	Name	SBO
cam_RR_B_tbp	cam_RR_B_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{12} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_tbp}] - \text{koff_BR} \cdot [\text{cam_RR_B_tbp}]) \quad (77)$$

7.13 Reaction ca_binding_to_cam_RR_0_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_0 on site C

Reaction equation



Reactants

Table 42: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_0	cam_RR_0_0	

Modifiers

Table 43: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_0	cam_RR_0_0	
cam_RR_C_0	cam_RR_C_0	

Product

Table 44: Properties of each product.

Id	Name	SBO
cam_RR_C_0	cam_RR_C_0	

Kinetic Law

Derived unit contains undeclared units

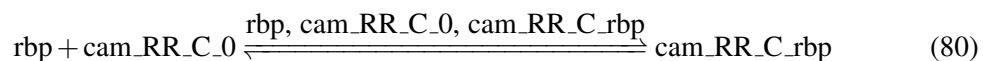
$$v_{13} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_0}] - \text{koff_CR} \cdot [\text{cam_RR_C_0}]) \quad (79)$$

7.14 Reaction rbp_binding_to_cam_RR_C_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_C_0

Reaction equation



Reactants

Table 45: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RR_C_0	cam_RR_C_0	

Modifiers

Table 46: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RR_C_0	cam_RR_C_0	
cam_RR_C_rbp	cam_RR_C_rbp	

Product

Table 47: Properties of each product.

Id	Name	SBO
cam_RR_C_rbp	cam_RR_C_rbp	

Kinetic Law

Derived unit contains undeclared units

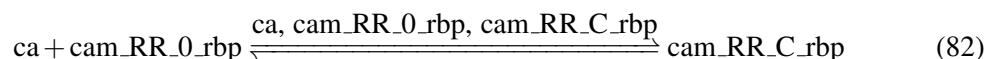
$$v_{14} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_C_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_C_rbp}]) \quad (81)$$

7.15 Reaction ca_binding_to_cam_RR_0_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_rbp on site C

Reaction equation



Reactants

Table 48: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_rbp	cam_RR_0_rbp	

Modifiers

Table 49: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_rbp	cam_RR_0_rbp	
cam_RR_C_rbp	cam_RR_C_rbp	

Product

Table 50: Properties of each product.

Id	Name	SBO
cam_RR_C_rbp	cam_RR_C_rbp	

Kinetic Law

Derived unit contains undeclared units

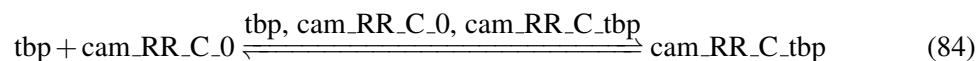
$$v_{15} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_rbp}] - \text{koff_CR} \cdot [\text{cam_RR_C_rbp}]) \quad (83)$$

7.16 Reaction tbp_binding_to_cam_RR_C_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_C_0

Reaction equation



Reactants

Table 51: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_C_0	cam_RR_C_0	

Modifiers

Table 52: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_C_0	cam_RR_C_0	
cam_RR_C_tbp	cam_RR_C_tbp	

Product

Table 53: Properties of each product.

Id	Name	SBO
cam_RR_C_tbp	cam_RR_C_tbp	

Kinetic Law

Derived unit contains undeclared units

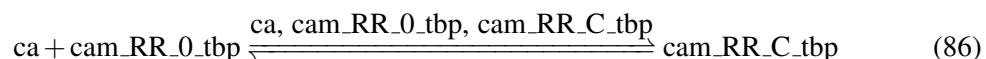
$$v_{16} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_C_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_C_tbp}]) \quad (85)$$

7.17 Reaction ca_binding_to_cam_RR_0_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_tbp on site C

Reaction equation



Reactants

Table 54: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_tbp	cam_RR_0_tbp	

Modifiers

Table 55: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_tbp	cam_RR_0_tbp	
cam_RR_C_tbp	cam_RR_C_tbp	

Product

Table 56: Properties of each product.

Id	Name	SBO
cam_RR_C_tbp	cam_RR_C_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{17} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_tbp}] - \text{koff_CR} \cdot [\text{cam_RR_C_tbp}]) \quad (87)$$

7.18 Reaction ca_binding_to_cam_RR_0_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_0 on site D

Reaction equation



Reactants

Table 57: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_0	cam_RR_0_0	

Modifiers

Table 58: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_0	cam_RR_0_0	
cam_RR_D_0	cam_RR_D_0	

Product

Table 59: Properties of each product.

Id	Name	SBO
cam_RR_D_0	cam_RR_D_0	

Kinetic Law

Derived unit contains undeclared units

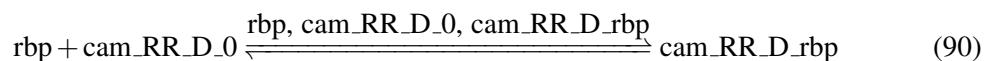
$$v_{18} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_0}] - \text{koff_DR} \cdot [\text{cam_RR_D_0}]) \quad (89)$$

7.19 Reaction rbp_binding_to_cam_RR_D_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_D_0

Reaction equation



Reactants

Table 60: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RR_D_0	cam_RR_D_0	

Modifiers

Table 61: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RR_D_0	cam_RR_D_0	
cam_RR_D_rbp	cam_RR_D_rbp	

Product

Table 62: Properties of each product.

Id	Name	SBO
cam_RR_D_rbp	cam_RR_D_rbp	

Kinetic Law

Derived unit contains undeclared units

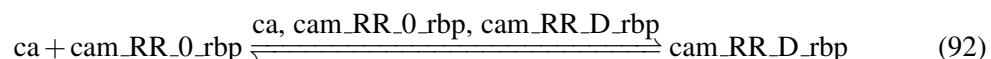
$$v_{19} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RR_D_0}] - \text{koff_rpb_RR} \cdot [\text{cam_RR_D_rbp}]) \quad (91)$$

7.20 Reaction ca_binding_to_cam_RR_0_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_rbp on site D

Reaction equation



Reactants

Table 63: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_rbp	cam_RR_0_rbp	

Modifiers

Table 64: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_rbp	cam_RR_0_rbp	
cam_RR_D_rbp	cam_RR_D_rbp	

Product

Table 65: Properties of each product.

Id	Name	SBO
cam_RR_D_rbp	cam_RR_D_rbp	

Kinetic Law

Derived unit contains undeclared units

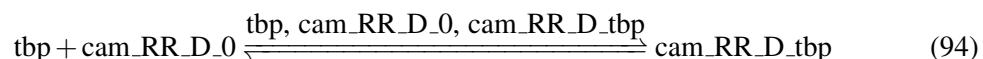
$$v_{20} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_rbp}] - \text{koff_DR} \cdot [\text{cam_RR_D_rbp}]) \quad (93)$$

7.21 Reaction tbp_binding_to_cam_RR_D_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_D_0

Reaction equation



Reactants

Table 66: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_D_0	cam_RR_D_0	

Modifiers

Table 67: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_D_0	cam_RR_D_0	
cam_RR_D_tbp	cam_RR_D_tbp	

Product

Table 68: Properties of each product.

Id	Name	SBO
cam_RR_D_tbp	cam_RR_D_tbp	

Kinetic Law

Derived unit contains undeclared units

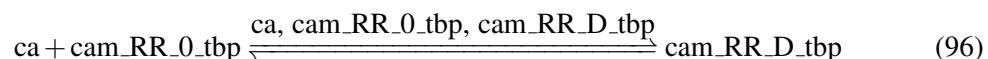
$$v_{21} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_D_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_D_tbp}]) \quad (95)$$

7.22 Reaction ca_binding_to_cam_RR_0_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_0_tbp on site D

Reaction equation



Reactants

Table 69: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_0_tbp	cam_RR_0_tbp	

Modifiers

Table 70: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_0_tbp	cam_RR_0_tbp	
cam_RR_D_tbp	cam_RR_D_tbp	

Product

Table 71: Properties of each product.

Id	Name	SBO
cam_RR_D_tbp	cam_RR_D_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{22} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_0_tbp}] - \text{koff_DR} \cdot [\text{cam_RR_D_tbp}]) \quad (97)$$

7.23 Reaction ca_binding_to_cam_RR_B_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_0 on site A

Reaction equation



Reactants

Table 72: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_0	cam_RR_B_0	

Modifiers

Table 73: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_0	cam_RR_B_0	
cam_RR_AB_0	cam_RR_AB_0	

Product

Table 74: Properties of each product.

Id	Name	SBO
cam_RR_AB_0	cam_RR_AB_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{23} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_0}] - \text{koff_AR} \cdot [\text{cam_RR_AB_0}]) \quad (99)$$

7.24 Reaction ca_binding_to_cam_RR_A_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_0 on site B

Reaction equation



Reactants

Table 75: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_0	cam_RR_A_0	

Modifiers

Table 76: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_0	cam_RR_A_0	
cam_RR_AB_0	cam_RR_AB_0	

Product

Table 77: Properties of each product.

Id	Name	SBO
cam_RR_AB_0	cam_RR_AB_0	

Kinetic Law

Derived unit contains undeclared units

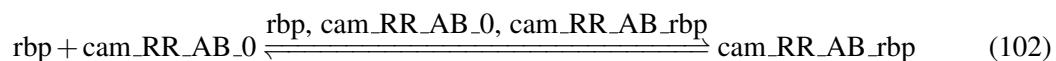
$$v_{24} = \text{vol(cytosol)} \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_0}] - \text{koff_BR} \cdot [\text{cam_RR_AB_0}]) \quad (101)$$

7.25 Reaction rbp_binding_to_cam_RR_AB_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_AB_0

Reaction equation



Reactants

Table 78: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RR_AB_0	cam_RR_AB_0	

Modifiers

Table 79: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RR_AB_0	cam_RR_AB_0	
cam_RR_AB_rbp	cam_RR_AB_rbp	

Product

Table 80: Properties of each product.

Id	Name	SBO
cam_RR_AB_rbp	cam_RR_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{25} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RR_AB_0}] - \text{koff_rpb_RR} \cdot [\text{cam_RR_AB_rbp}]) \quad (103)$$

7.26 Reaction ca_binding_to_cam_RR_B_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_rbp on site A

Reaction equation



Reactants

Table 81: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_rbp	cam_RR_B_rbp	

Modifiers

Table 82: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_rbp	cam_RR_B_rbp	
cam_RR_AB_rbp	cam_RR_AB_rbp	

Product

Table 83: Properties of each product.

Id	Name	SBO
cam_RR_AB_rbp	cam_RR_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{26} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_rbp}] - \text{koff_AR} \cdot [\text{cam_RR_AB_rbp}]) \quad (105)$$

7.27 Reaction ca_binding_to_cam_RR_A_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_rbp on site B

Reaction equation



Reactants

Table 84: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_rbp	cam_RR_A_rbp	

Modifiers

Table 85: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_rbp	cam_RR_A_rbp	
cam_RR_AB_rbp	cam_RR_AB_rbp	

Product

Table 86: Properties of each product.

Id	Name	SBO
cam_RR_AB_rbp	cam_RR_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

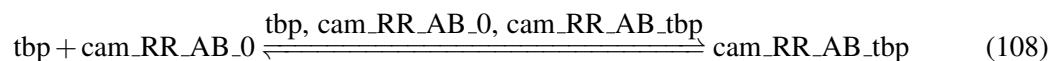
$$v_{27} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_rbp}] - \text{koff_BR} \cdot [\text{cam_RR_AB_rbp}]) \quad (107)$$

7.28 Reaction tbp_binding_to_cam_RR_AB_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_AB_0

Reaction equation



Reactants

Table 87: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_AB_0	cam_RR_AB_0	

Modifiers

Table 88: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_AB_0	cam_RR_AB_0	
cam_RR_AB_tbp	cam_RR_AB_tbp	

Product

Table 89: Properties of each product.

Id	Name	SBO
cam_RR_AB_tbp	cam_RR_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{28} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_AB_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_AB_tbp}]) \quad (109)$$

7.29 Reaction ca_binding_to_cam_RR_B_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_tbp on site A

Reaction equation



Reactants

Table 90: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_tbp	cam_RR_B_tbp	

Modifiers

Table 91: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_tbp	cam_RR_B_tbp	
cam_RR_AB_tbp	cam_RR_AB_tbp	

Product

Table 92: Properties of each product.

Id	Name	SBO
cam_RR_AB_tbp	cam_RR_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{29} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_tbp}] - \text{koff_AR} \cdot [\text{cam_RR_AB_tbp}]) \quad (111)$$

7.30 Reaction ca_binding_to_cam_RR_A_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_tbp on site B

Reaction equation



Reactants

Table 93: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_tbp	cam_RR_A_tbp	

Modifiers

Table 94: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_tbp	cam_RR_A_tbp	
cam_RR_AB_tbp	cam_RR_AB_tbp	

Product

Table 95: Properties of each product.

Id	Name	SBO
cam_RR_AB_tbp	cam_RR_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

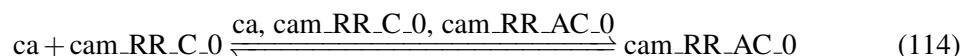
$$v_{30} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_tbp}] - \text{koff_BR} \cdot [\text{cam_RR_AB_tbp}]) \quad (113)$$

7.31 Reaction ca_binding_to_cam_RR_C_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_0 on site A

Reaction equation



Reactants

Table 96: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_0	cam_RR_C_0	

Modifiers

Table 97: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_0	cam_RR_C_0	
cam_RR_AC_0	cam_RR_AC_0	

Product

Table 98: Properties of each product.

Id	Name	SBO
cam_RR_AC_0	cam_RR_AC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{31} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_0}] - \text{koff_AR} \cdot [\text{cam_RR_AC_0}]) \quad (115)$$

7.32 Reaction ca_binding_to_cam_RR_A_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_0 on site C

Reaction equation



Reactants

Table 99: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_0	cam_RR_A_0	

Modifiers

Table 100: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_0	cam_RR_A_0	
cam_RR_AC_0	cam_RR_AC_0	

Product

Table 101: Properties of each product.

Id	Name	SBO
cam_RR_AC_0	cam_RR_AC_0	

Kinetic Law

Derived unit contains undeclared units

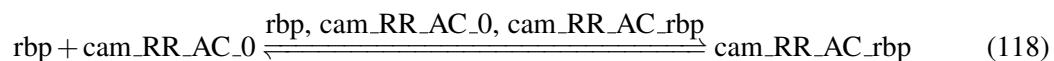
$$v_{32} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_0}] - \text{koff_CR} \cdot [\text{cam_RR_AC_0}]) \quad (117)$$

7.33 Reaction rbp_binding_to_cam_RR_AC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_AC_0

Reaction equation



Reactants

Table 102: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RR_AC_0	cam_RR_AC_0	

Modifiers

Table 103: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RR_AC_0	cam_RR_AC_0	
cam_RR_AC_rbp	cam_RR_AC_rbp	

Product

Table 104: Properties of each product.

Id	Name	SBO
cam_RR_AC_rbp	cam_RR_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{33} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RR_AC_0}] - \text{koff_rpb_RR} \cdot [\text{cam_RR_AC_rbp}]) \quad (119)$$

7.34 Reaction ca_binding_to_cam_RR_C_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_rbp on site A

Reaction equation



Reactants

Table 105: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_rbp	cam_RR_C_rbp	

Modifiers

Table 106: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_rbp	cam_RR_C_rbp	
cam_RR_AC_rbp	cam_RR_AC_rbp	

Product

Table 107: Properties of each product.

Id	Name	SBO
cam_RR_AC_rbp	cam_RR_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{34} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_rbp}] - \text{koff_AR} \cdot [\text{cam_RR_AC_rbp}]) \quad (121)$$

7.35 Reaction ca_binding_to_cam_RR_A_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_rbp on site C

Reaction equation



Reactants

Table 108: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_rbp	cam_RR_A_rbp	

Modifiers

Table 109: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_rbp	cam_RR_A_rbp	
cam_RR_AC_rbp	cam_RR_AC_rbp	

Product

Table 110: Properties of each product.

Id	Name	SBO
cam_RR_AC_rbp	cam_RR_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

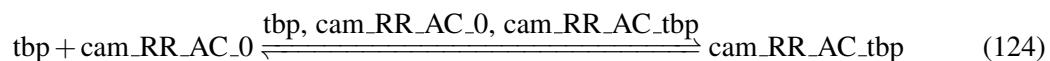
$$v_{35} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_rbp}] - \text{koff_CR} \cdot [\text{cam_RR_AC_rbp}]) \quad (123)$$

7.36 Reaction tbp_binding_to_cam_RR_AC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_AC_0

Reaction equation



Reactants

Table 111: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_AC_0	cam_RR_AC_0	

Modifiers

Table 112: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_AC_0	cam_RR_AC_0	
cam_RR_AC_tbp	cam_RR_AC_tbp	

Product

Table 113: Properties of each product.

Id	Name	SBO
cam_RR_AC_tbp	cam_RR_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{36} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_AC_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_AC_tbp}]) \quad (125)$$

7.37 Reaction ca_binding_to_cam_RR_C_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_tbp on site A

Reaction equation



Reactants

Table 114: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_tbp	cam_RR_C_tbp	

Modifiers

Table 115: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_tbp	cam_RR_C_tbp	
cam_RR_AC_tbp	cam_RR_AC_tbp	

Product

Table 116: Properties of each product.

Id	Name	SBO
cam_RR_AC_tbp	cam_RR_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{37} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_tbp}] - \text{koff_AR} \cdot [\text{cam_RR_AC_tbp}]) \quad (127)$$

7.38 Reaction ca_binding_to_cam_RR_A_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_tbp on site C

Reaction equation



Reactants

Table 117: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_tbp	cam_RR_A_tbp	

Modifiers

Table 118: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_tbp	cam_RR_A_tbp	
cam_RR_AC_tbp	cam_RR_AC_tbp	

Product

Table 119: Properties of each product.

Id	Name	SBO
cam_RR_AC_tbp	cam_RR_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

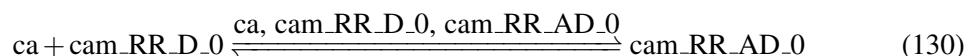
$$v_{38} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_tbp}] - \text{koff_CR} \cdot [\text{cam_RR_AC_tbp}]) \quad (129)$$

7.39 Reaction ca_binding_to_cam_RR_D_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_0 on site A

Reaction equation



Reactants

Table 120: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_0	cam_RR_D_0	

Modifiers

Table 121: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_0	cam_RR_D_0	
cam_RR_AD_0	cam_RR_AD_0	

Product

Table 122: Properties of each product.

Id	Name	SBO
cam_RR_AD_0	cam_RR_AD_0	

Kinetic Law

Derived unit contains undeclared units

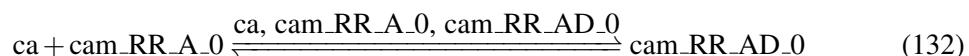
$$v_{39} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_0}] - \text{koff_AR} \cdot [\text{cam_RR_AD_0}]) \quad (131)$$

7.40 Reaction ca_binding_to_cam_RR_A_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_0 on site D

Reaction equation



Reactants

Table 123: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_0	cam_RR_A_0	

Modifiers

Table 124: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_0	cam_RR_A_0	
cam_RR_AD_0	cam_RR_AD_0	

Product

Table 125: Properties of each product.

Id	Name	SBO
cam_RR_AD_0	cam_RR_AD_0	

Kinetic Law

Derived unit contains undeclared units

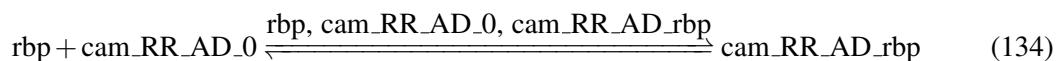
$$v_{40} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_0}] - \text{koff_DR} \cdot [\text{cam_RR_AD_0}]) \quad (133)$$

7.41 Reaction rbp_binding_to_cam_RR_AD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_AD_0

Reaction equation



Reactants

Table 126: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RR_AD_0	cam_RR_AD_0	

Modifiers

Table 127: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RR_AD_0	cam_RR_AD_0	
cam_RR_AD_rbp	cam_RR_AD_rbp	

Product

Table 128: Properties of each product.

Id	Name	SBO
cam_RR_AD_rbp	cam_RR_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{41} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_AD_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_AD_rbp}]) \quad (135)$$

7.42 Reaction ca_binding_to_cam_RR_D_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_rbp on site A

Reaction equation



Reactants

Table 129: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_rbp	cam_RR_D_rbp	

Modifiers

Table 130: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_rbp	cam_RR_D_rbp	
cam_RR_AD_rbp	cam_RR_AD_rbp	

Product

Table 131: Properties of each product.

Id	Name	SBO
cam_RR_AD_rbp	cam_RR_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

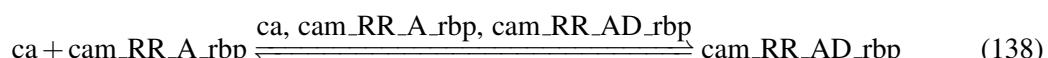
$$v_{42} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_rbp}] - \text{koff_AR} \cdot [\text{cam_RR_AD_rbp}]) \quad (137)$$

7.43 Reaction ca_binding_to_cam_RR_A_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_rbp on site D

Reaction equation



Reactants

Table 132: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_rbp	cam_RR_A_rbp	

Modifiers

Table 133: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_rbp	cam_RR_A_rbp	
cam_RR_AD_rbp	cam_RR_AD_rbp	

Product

Table 134: Properties of each product.

Id	Name	SBO
cam_RR_AD_rbp	cam_RR_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

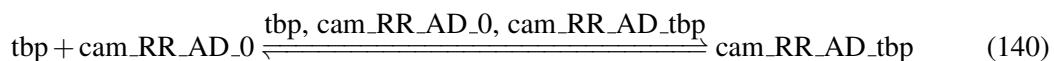
$$v_{43} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_rbp}] - \text{koff_DR} \cdot [\text{cam_RR_AD_rbp}]) \quad (139)$$

7.44 Reaction tbp_binding_to_cam_RR_AD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_AD_0

Reaction equation



Reactants

Table 135: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_AD_0	cam_RR_AD_0	

Modifiers

Table 136: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_AD_0	cam_RR_AD_0	
cam_RR_AD_tbp	cam_RR_AD_tbp	

Product

Table 137: Properties of each product.

Id	Name	SBO
cam_RR_AD_tbp	cam_RR_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{44} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_AD_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_AD_tbp}]) \quad (141)$$

7.45 Reaction ca_binding_to_cam_RR_D_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_tbp on site A

Reaction equation



Reactants

Table 138: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_tbp	cam_RR_D_tbp	

Modifiers

Table 139: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_tbp	cam_RR_D_tbp	
cam_RR_AD_tbp	cam_RR_AD_tbp	

Product

Table 140: Properties of each product.

Id	Name	SBO
cam_RR_AD_tbp	cam_RR_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{45} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_tbp}] - \text{koff_AR} \cdot [\text{cam_RR_AD_tbp}]) \quad (143)$$

7.46 Reaction ca_binding_to_cam_RR_A_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_A_tbp on site D

Reaction equation



Reactants

Table 141: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_A_tbp	cam_RR_A_tbp	

Modifiers

Table 142: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_A_tbp	cam_RR_A_tbp	
cam_RR_AD_tbp	cam_RR_AD_tbp	

Product

Table 143: Properties of each product.

Id	Name	SBO
cam_RR_AD_tbp	cam_RR_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{46} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_A_tbp}] - \text{koff_DR} \cdot [\text{cam_RR_AD_tbp}]) \quad (145)$$

7.47 Reaction ca_binding_to_cam_RR_C_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_0 on site B

Reaction equation



Reactants

Table 144: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_0	cam_RR_C_0	

Modifiers

Table 145: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_0	cam_RR_C_0	
cam_RR_BC_0	cam_RR_BC_0	

Product

Table 146: Properties of each product.

Id	Name	SBO
cam_RR_BC_0	cam_RR_BC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{47} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_0}] - \text{koff_BR} \cdot [\text{cam_RR_BC_0}]) \quad (147)$$

7.48 Reaction ca_binding_to_cam_RR_B_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_0 on site C

Reaction equation



Reactants

Table 147: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_0	cam_RR_B_0	

Modifiers

Table 148: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_0	cam_RR_B_0	
cam_RR_BC_0	cam_RR_BC_0	

Product

Table 149: Properties of each product.

Id	Name	SBO
cam_RR_BC_0	cam_RR_BC_0	

Kinetic Law

Derived unit contains undeclared units

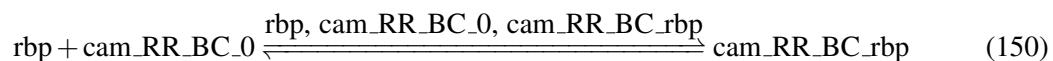
$$v_{48} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_0}] - \text{koff_CR} \cdot [\text{cam_RR_BC_0}]) \quad (149)$$

7.49 Reaction rbp_binding_to_cam_RR_BC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_BC_0

Reaction equation



Reactants

Table 150: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RR_BC_0	cam_RR_BC_0	

Modifiers

Table 151: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RR_BC_0	cam_RR_BC_0	
cam_RR_BC_rbp	cam_RR_BC_rbp	

Product

Table 152: Properties of each product.

Id	Name	SBO
cam_RR_BC_rbp	cam_RR_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{49} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RR_BC_0}] - \text{koff_rpb_RR} \cdot [\text{cam_RR_BC_rbp}]) \quad (151)$$

7.50 Reaction ca_binding_to_cam_RR_C_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_rbp on site B

Reaction equation



Reactants

Table 153: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_rbp	cam_RR_C_rbp	

Modifiers

Table 154: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_rbp	cam_RR_C_rbp	
cam_RR_BC_rbp	cam_RR_BC_rbp	

Product

Table 155: Properties of each product.

Id	Name	SBO
cam_RR_BC_rbp	cam_RR_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{50} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_rbp}] - \text{koff_BR} \cdot [\text{cam_RR_BC_rbp}]) \quad (153)$$

7.51 Reaction ca_binding_to_cam_RR_B_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_rbp on site C

Reaction equation



Reactants

Table 156: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_rbp	cam_RR_B_rbp	

Modifiers

Table 157: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_rbp	cam_RR_B_rbp	
cam_RR_BC_rbp	cam_RR_BC_rbp	

Product

Table 158: Properties of each product.

Id	Name	SBO
cam_RR_BC_rbp	cam_RR_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

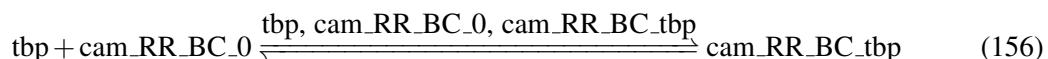
$$v_{51} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_rbp}] - \text{koff_CR} \cdot [\text{cam_RR_BC_rbp}]) \quad (155)$$

7.52 Reaction tbp_binding_to_cam_RR_BC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_BC_0

Reaction equation



Reactants

Table 159: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_BC_0	cam_RR_BC_0	

Modifiers

Table 160: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_BC_0	cam_RR_BC_0	
cam_RR_BC_tbp	cam_RR_BC_tbp	

Product

Table 161: Properties of each product.

Id	Name	SBO
cam_RR_BC_tbp	cam_RR_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{52} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_BC_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_BC_tbp}]) \quad (157)$$

7.53 Reaction ca_binding_to_cam_RR_C_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_tbp on site B

Reaction equation



Reactants

Table 162: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_tbp	cam_RR_C_tbp	

Modifiers

Table 163: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_tbp	cam_RR_C_tbp	
cam_RR_BC_tbp	cam_RR_BC_tbp	

Product

Table 164: Properties of each product.

Id	Name	SBO
cam_RR_BC_tbp	cam_RR_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{53} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_tbp}] - \text{koff_BR} \cdot [\text{cam_RR_BC_tbp}]) \quad (159)$$

7.54 Reaction ca_binding_to_cam_RR_B_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_tbp on site C

Reaction equation



Reactants

Table 165: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_tbp	cam_RR_B_tbp	

Modifiers

Table 166: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_tbp	cam_RR_B_tbp	
cam_RR_BC_tbp	cam_RR_BC_tbp	

Product

Table 167: Properties of each product.

Id	Name	SBO
cam_RR_BC_tbp	cam_RR_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{54} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_tbp}] - \text{koff_CR} \cdot [\text{cam_RR_BC_tbp}]) \quad (161)$$

7.55 Reaction ca_binding_to_cam_RR_D_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_0 on site B

Reaction equation



Reactants

Table 168: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_0	cam_RR_D_0	

Modifiers

Table 169: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_0	cam_RR_D_0	
cam_RR_BD_0	cam_RR_BD_0	

Product

Table 170: Properties of each product.

Id	Name	SBO
cam_RR_BD_0	cam_RR_BD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{55} = \text{vol(cytosol)} \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_0}] - \text{koff_BR} \cdot [\text{cam_RR_BD_0}]) \quad (163)$$

7.56 Reaction ca_binding_to_cam_RR_B_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_0 on site D

Reaction equation



Reactants

Table 171: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_0	cam_RR_B_0	

Modifiers

Table 172: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_0	cam_RR_B_0	
cam_RR_BD_0	cam_RR_BD_0	

Product

Table 173: Properties of each product.

Id	Name	SBO
cam_RR_BD_0	cam_RR_BD_0	

Kinetic Law

Derived unit contains undeclared units

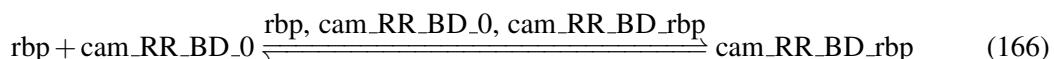
$$\nu_{56} = \text{vol(cytosol)} \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_0}] - \text{koff_DR} \cdot [\text{cam_RR_BD_0}]) \quad (165)$$

7.57 Reaction rbp_binding_to_cam_RR_BD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_BD_0

Reaction equation



Reactants

Table 174: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RR_BD_0	cam_RR_BD_0	

Modifiers

Table 175: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RR_BD_0	cam_RR_BD_0	
cam_RR_BD_rbp	cam_RR_BD_rbp	

Product

Table 176: Properties of each product.

Id	Name	SBO
cam_RR_BD_rbp	cam_RR_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{57} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RR_BD_0}] - \text{koff_rpb_RR} \cdot [\text{cam_RR_BD_rbp}]) \quad (167)$$

7.58 Reaction ca_binding_to_cam_RR_D_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_rbp on site B

Reaction equation



Reactants

Table 177: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_rbp	cam_RR_D_rbp	

Modifiers

Table 178: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_rbp	cam_RR_D_rbp	
cam_RR_BD_rbp	cam_RR_BD_rbp	

Product

Table 179: Properties of each product.

Id	Name	SBO
cam_RR_BD_rbp	cam_RR_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{58} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_rbp}] - \text{koff_BR} \cdot [\text{cam_RR_BD_rbp}]) \quad (169)$$

7.59 Reaction ca_binding_to_cam_RR_B_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_rbp on site D

Reaction equation



Reactants

Table 180: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_rbp	cam_RR_B_rbp	

Modifiers

Table 181: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_rbp	cam_RR_B_rbp	
cam_RR_BD_rbp	cam_RR_BD_rbp	

Product

Table 182: Properties of each product.

Id	Name	SBO
cam_RR_BD_rbp	cam_RR_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

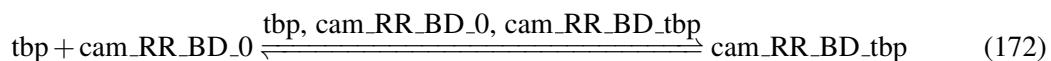
$$v_{59} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_rbp}] - \text{koff_DR} \cdot [\text{cam_RR_BD_rbp}]) \quad (171)$$

7.60 Reaction tbp_binding_to_cam_RR_BD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_BD_0

Reaction equation



Reactants

Table 183: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_BD_0	cam_RR_BD_0	

Modifiers

Table 184: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_BD_0	cam_RR_BD_0	
cam_RR_BD_tbp	cam_RR_BD_tbp	

Product

Table 185: Properties of each product.

Id	Name	SBO
cam_RR_BD_tbp	cam_RR_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{60} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_BD_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_BD_tbp}]) \quad (173)$$

7.61 Reaction ca_binding_to_cam_RR_D_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_tbp on site B

Reaction equation



Reactants

Table 186: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_tbp	cam_RR_D_tbp	

Modifiers

Table 187: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_tbp	cam_RR_D_tbp	
cam_RR_BD_tbp	cam_RR_BD_tbp	

Product

Table 188: Properties of each product.

Id	Name	SBO
cam_RR_BD_tbp	cam_RR_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{61} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_tbp}] - \text{koff_BR} \cdot [\text{cam_RR_BD_tbp}]) \quad (175)$$

7.62 Reaction ca_binding_to_cam_RR_B_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_B_tbp on site D

Reaction equation



Reactants

Table 189: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_B_tbp	cam_RR_B_tbp	

Modifiers

Table 190: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_B_tbp	cam_RR_B_tbp	
cam_RR_BD_tbp	cam_RR_BD_tbp	

Product

Table 191: Properties of each product.

Id	Name	SBO
cam_RR_BD_tbp	cam_RR_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{62} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_B_tbp}] - \text{koff_DR} \cdot [\text{cam_RR_BD_tbp}]) \quad (177)$$

7.63 Reaction ca_binding_to_cam_RR_D_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_0 on site C

Reaction equation



Reactants

Table 192: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_0	cam_RR_D_0	

Modifiers

Table 193: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_0	cam_RR_D_0	
cam_RR_CD_0	cam_RR_CD_0	

Product

Table 194: Properties of each product.

Id	Name	SBO
cam_RR_CD_0	cam_RR_CD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{63} = \text{vol(cytosol)} \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_0}] - \text{koff_CR} \cdot [\text{cam_RR_CD_0}]) \quad (179)$$

7.64 Reaction ca_binding_to_cam_RR_C_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_0 on site D

Reaction equation



Reactants

Table 195: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_0	cam_RR_C_0	

Modifiers

Table 196: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_0	cam_RR_C_0	
cam_RR_CD_0	cam_RR_CD_0	

Product

Table 197: Properties of each product.

Id	Name	SBO
cam_RR_CD_0	cam_RR_CD_0	

Kinetic Law

Derived unit contains undeclared units

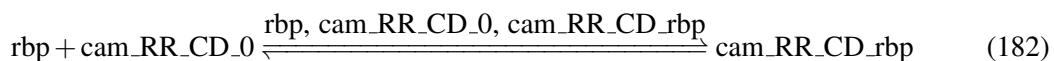
$$v_{64} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_0}] - \text{koff_DR} \cdot [\text{cam_RR_CD_0}]) \quad (181)$$

7.65 Reaction rbp_binding_to_cam_RR_CD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_CD_0

Reaction equation



Reactants

Table 198: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RR_CD_0	cam_RR_CD_0	

Modifiers

Table 199: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RR_CD_0	cam_RR_CD_0	
cam_RR_CD_rbp	cam_RR_CD_rbp	

Product

Table 200: Properties of each product.

Id	Name	SBO
cam_RR_CD_rbp	cam_RR_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{65} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RR_CD_0}] - \text{koff_rpb_RR} \cdot [\text{cam_RR_CD_rbp}]) \quad (183)$$

7.66 Reaction ca_binding_to_cam_RR_D_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_rbp on site C

Reaction equation



Reactants

Table 201: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_rbp	cam_RR_D_rbp	

Modifiers

Table 202: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_rbp	cam_RR_D_rbp	
cam_RR_CD_rbp	cam_RR_CD_rbp	

Product

Table 203: Properties of each product.

Id	Name	SBO
cam_RR_CD_rbp	cam_RR_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{66} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_rbp}] - \text{koff_CR} \cdot [\text{cam_RR_CD_rbp}]) \quad (185)$$

7.67 Reaction ca_binding_to_cam_RR_C_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_rbp on site D

Reaction equation



Reactants

Table 204: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_rbp	cam_RR_C_rbp	

Modifiers

Table 205: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_rbp	cam_RR_C_rbp	
cam_RR_CD_rbp	cam_RR_CD_rbp	

Product

Table 206: Properties of each product.

Id	Name	SBO
cam_RR_CD_rbp	cam_RR_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

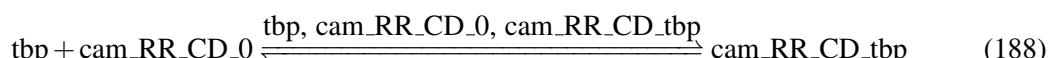
$$v_{67} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_rbp}] - \text{koff_DR} \cdot [\text{cam_RR_CD_rbp}]) \quad (187)$$

7.68 Reaction tbp_binding_to_cam_RR_CD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_CD_0

Reaction equation



Reactants

Table 207: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_CD_0	cam_RR_CD_0	

Modifiers

Table 208: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_CD_0	cam_RR_CD_0	
cam_RR_CD_tbp	cam_RR_CD_tbp	

Product

Table 209: Properties of each product.

Id	Name	SBO
cam_RR_CD_tbp	cam_RR_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{68} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_CD_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_CD_tbp}]) \quad (189)$$

7.69 Reaction ca_binding_to_cam_RR_D_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_D_tbp on site C

Reaction equation



Reactants

Table 210: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_D_tbp	cam_RR_D_tbp	

Modifiers

Table 211: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_D_tbp	cam_RR_D_tbp	
cam_RR_CD_tbp	cam_RR_CD_tbp	

Product

Table 212: Properties of each product.

Id	Name	SBO
cam_RR_CD_tbp	cam_RR_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{69} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_D_tbp}] - \text{koff_CR} \cdot [\text{cam_RR_CD_tbp}]) \quad (191)$$

7.70 Reaction ca_binding_to_cam_RR_C_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_C_tbp on site D

Reaction equation



Reactants

Table 213: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_C_tbp	cam_RR_C_tbp	

Modifiers

Table 214: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_C_tbp	cam_RR_C_tbp	
cam_RR_CD_tbp	cam_RR_CD_tbp	

Product

Table 215: Properties of each product.

Id	Name	SBO
cam_RR_CD_tbp	cam_RR_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{70} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_C_tbp}] - \text{koff_DR} \cdot [\text{cam_RR_CD_tbp}]) \quad (193)$$

7.71 Reaction ca_binding_to_cam_RR_BC_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BC_0 on site A

Reaction equation



Reactants

Table 216: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BC_0	cam_RR_BC_0	

Modifiers

Table 217: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BC_0	cam_RR_BC_0	
cam_RR_ABC_0	cam_RR_ABC_0	

Product

Table 218: Properties of each product.

Id	Name	SBO
cam_RR_ABC_0	cam_RR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{71} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BC_0}] - \text{koff_AR} \cdot [\text{cam_RR_ABC_0}]) \quad (195)$$

7.72 Reaction ca_binding_to_cam_RR_AC_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AC_0 on site B

Reaction equation



Reactants

Table 219: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AC_0	cam_RR_AC_0	

Modifiers

Table 220: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AC_0	cam_RR_AC_0	
cam_RR_ABC_0	cam_RR_ABC_0	

Product

Table 221: Properties of each product.

Id	Name	SBO
cam_RR_ABC_0	cam_RR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{72} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_AC_0}] - \text{koff_BR} \cdot [\text{cam_RR_ABC_0}]) \quad (197)$$

7.73 Reaction ca_binding_to_cam_RR_AB_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AB_0 on site C

Reaction equation



Reactants

Table 222: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AB_0	cam_RR_AB_0	

Modifiers

Table 223: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AB_0	cam_RR_AB_0	
cam_RR_ABC_0	cam_RR_ABC_0	

Product

Table 224: Properties of each product.

Id	Name	SBO
cam_RR_ABC_0	cam_RR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

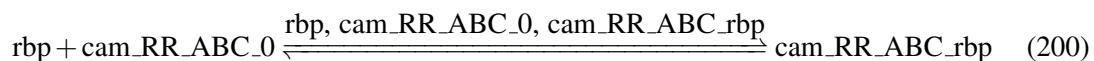
$$v_{73} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_AB_0}] - \text{koff_CR} \cdot [\text{cam_RR_ABC_0}]) \quad (199)$$

7.74 Reaction rbp_binding_to_cam_RR_ABC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_ABC_0

Reaction equation



Reactants

Table 225: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RR_ABC_0	cam_RR_ABC_0	

Modifiers

Table 226: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RR_ABC_0	cam_RR_ABC_0	
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Product

Table 227: Properties of each product.

Id	Name	SBO
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

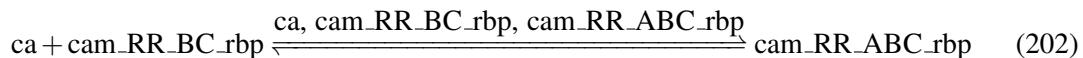
$$v_{74} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_ABC_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_ABC_rbp}]) \quad (201)$$

7.75 Reaction ca_binding_to_cam_RR_BC_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BC_rbp on site A

Reaction equation



Reactants

Table 228: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BC_rbp	cam_RR_BC_rbp	

Modifiers

Table 229: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BC_rbp	cam_RR_BC_rbp	
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Product

Table 230: Properties of each product.

Id	Name	SBO
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

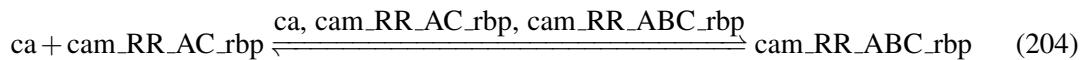
$$v_{75} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BC_rbp}] - \text{koff_AR} \cdot [\text{cam_RR_ABC_rbp}]) \quad (203)$$

7.76 Reaction ca_binding_to_cam_RR_AC_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AC_rbp on site B

Reaction equation



Reactants

Table 231: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AC_rbp	cam_RR_AC_rbp	

Modifiers

Table 232: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AC_rbp	cam_RR_AC_rbp	
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Product

Table 233: Properties of each product.

Id	Name	SBO
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

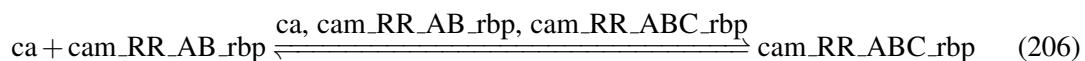
$$v_{76} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_AC_rbp}] - \text{koff_BR} \cdot [\text{cam_RR_ABC_rbp}]) \quad (205)$$

7.77 Reaction ca_binding_to_cam_RR_AB_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AB_rbp on site C

Reaction equation



Reactants

Table 234: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AB_rbp	cam_RR_AB_rbp	

Modifiers

Table 235: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AB_rbp	cam_RR_AB_rbp	
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Product

Table 236: Properties of each product.

Id	Name	SBO
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

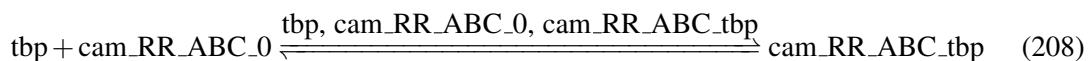
$$v_{77} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_AB_rbp}] - \text{koff_CR} \cdot [\text{cam_RR_ABC_rbp}]) \quad (207)$$

7.78 Reaction tbp_binding_to_cam_RR_ABC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_ABC_0

Reaction equation



Reactants

Table 237: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_ABC_0	cam_RR_ABC_0	

Modifiers

Table 238: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_ABC_0	cam_RR_ABC_0	
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Product

Table 239: Properties of each product.

Id	Name	SBO
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

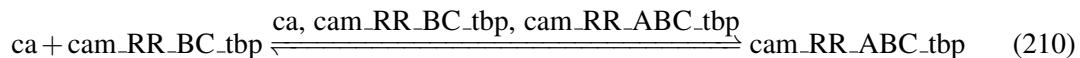
$$v_{78} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_ABC_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_ABC_tbp}]) \quad (209)$$

7.79 Reaction ca_binding_to_cam_RR_BC_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BC_tbp on site A

Reaction equation



Reactants

Table 240: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BC_tbp	cam_RR_BC_tbp	

Modifiers

Table 241: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BC_tbp	cam_RR_BC_tbp	
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Product

Table 242: Properties of each product.

Id	Name	SBO
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

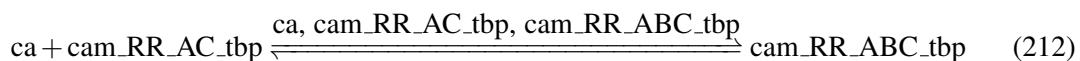
$$v_{79} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BC_tbp}] - \text{koff_AR} \cdot [\text{cam_RR_ABC_tbp}]) \quad (211)$$

7.80 Reaction ca_binding_to_cam_RR_AC_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AC_tbp on site B

Reaction equation



Reactants

Table 243: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AC_tbp	cam_RR_AC_tbp	

Modifiers

Table 244: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AC_tbp	cam_RR_AC_tbp	
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Product

Table 245: Properties of each product.

Id	Name	SBO
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

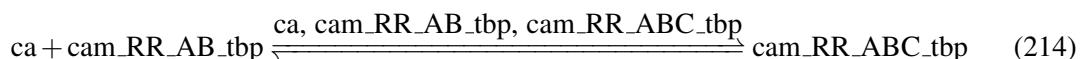
$$v_{80} = \text{vol(cytosol)} \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_AC_tbp}] - \text{koff_BR} \cdot [\text{cam_RR_ABC_tbp}]) \quad (213)$$

7.81 Reaction ca_binding_to_cam_RR_AB_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AB_tbp on site C

Reaction equation



Reactants

Table 246: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AB_tbp	cam_RR_AB_tbp	

Modifiers

Table 247: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AB_tbp	cam_RR_AB_tbp	
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Product

Table 248: Properties of each product.

Id	Name	SBO
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{81} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_AB_tbp}] - \text{koff_CR} \cdot [\text{cam_RR_ABC_tbp}]) \quad (215)$$

7.82 Reaction ca_binding_to_cam_RR_BD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BD_0 on site A

Reaction equation



Reactants

Table 249: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BD_0	cam_RR_BD_0	

Modifiers

Table 250: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BD_0	cam_RR_BD_0	
cam_RR_ABD_0	cam_RR_ABD_0	

Product

Table 251: Properties of each product.

Id	Name	SBO
cam_RR_ABD_0	cam_RR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{82} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BD_0}] - \text{koff_AR} \cdot [\text{cam_RR_ABD_0}]) \quad (217)$$

7.83 Reaction ca_binding_to_cam_RR_AD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AD_0 on site B

Reaction equation



Reactants

Table 252: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AD_0	cam_RR_AD_0	

Modifiers

Table 253: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AD_0	cam_RR_AD_0	
cam_RR_ABD_0	cam_RR_ABD_0	

Product

Table 254: Properties of each product.

Id	Name	SBO
cam_RR_ABD_0	cam_RR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{83} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_AD_0}] - \text{koff_BR} \cdot [\text{cam_RR_ABD_0}]) \quad (219)$$

7.84 Reaction ca_binding_to_cam_RR_AB_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AB_0 on site D

Reaction equation



Reactants

Table 255: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AB_0	cam_RR_AB_0	

Modifiers

Table 256: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AB_0	cam_RR_AB_0	
cam_RR_ABD_0	cam_RR_ABD_0	

Product

Table 257: Properties of each product.

Id	Name	SBO
cam_RR_ABD_0	cam_RR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

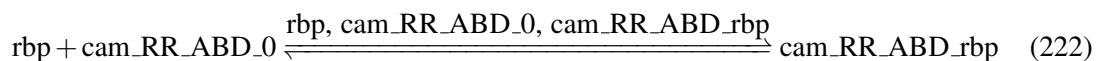
$$v_{84} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_AB_0}] - \text{koff_DR} \cdot [\text{cam_RR_ABD_0}]) \quad (221)$$

7.85 Reaction rbp_binding_to_cam_RR_ABD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_ABD_0

Reaction equation



Reactants

Table 258: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_RR_ABD_0	cam_RR_ABD_0	

Modifiers

Table 259: Properties of each modifier.

Id	Name	SBO
rbp	rpb	
cam_RR_ABD_0	cam_RR_ABD_0	
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Product

Table 260: Properties of each product.

Id	Name	SBO
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

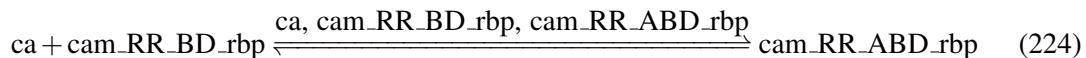
$$v_{85} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_ABD_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_ABD_rbp}]) \quad (223)$$

7.86 Reaction ca_binding_to_cam_RR_BD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BD_rbp on site A

Reaction equation



Reactants

Table 261: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BD_rbp	cam_RR_BD_rbp	

Modifiers

Table 262: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BD_rbp	cam_RR_BD_rbp	
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Product

Table 263: Properties of each product.

Id	Name	SBO
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

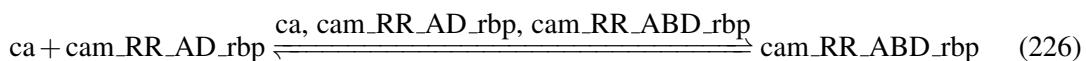
$$v_{86} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BD_rbp}] - \text{koff_AR} \cdot [\text{cam_RR_ABD_rbp}]) \quad (225)$$

7.87 Reaction ca_binding_to_cam_RR_AD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AD_rbp on site B

Reaction equation



Reactants

Table 264: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AD_rbp	cam_RR_AD_rbp	

Modifiers

Table 265: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AD_rbp	cam_RR_AD_rbp	
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Product

Table 266: Properties of each product.

Id	Name	SBO
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

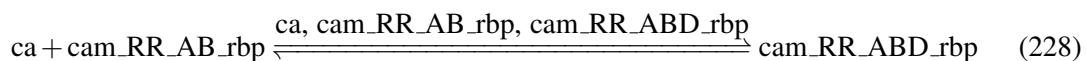
$$v_{87} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_AD_rbp}] - \text{koff_BR} \cdot [\text{cam_RR_ABD_rbp}]) \quad (227)$$

7.88 Reaction ca_binding_to_cam_RR_AB_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AB_rbp on site D

Reaction equation



Reactants

Table 267: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AB_rbp	cam_RR_AB_rbp	

Modifiers

Table 268: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AB_rbp	cam_RR_AB_rbp	
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Product

Table 269: Properties of each product.

Id	Name	SBO
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

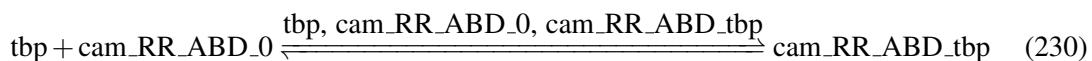
$$v_{88} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_AB_rbp}] - \text{koff_DR} \cdot [\text{cam_RR_ABD_rbp}]) \quad (229)$$

7.89 Reaction tbp_binding_to_cam_RR_ABD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_ABD_0

Reaction equation



Reactants

Table 270: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_ABD_0	cam_RR_ABD_0	

Modifiers

Table 271: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_ABD_0	cam_RR_ABD_0	
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Product

Table 272: Properties of each product.

Id	Name	SBO
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

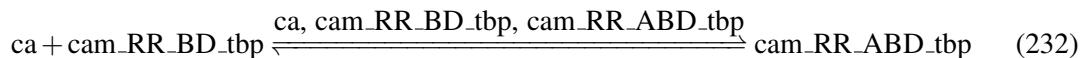
$$v_{89} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_ABD_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_ABD_tbp}]) \quad (231)$$

7.90 Reaction ca_binding_to_cam_RR_BD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BD_tbp on site A

Reaction equation



Reactants

Table 273: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BD_tbp	cam_RR_BD_tbp	

Modifiers

Table 274: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BD_tbp	cam_RR_BD_tbp	
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Product

Table 275: Properties of each product.

Id	Name	SBO
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

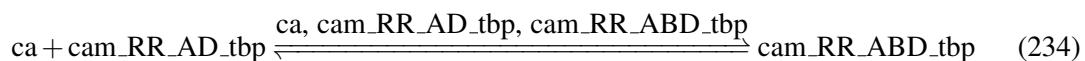
$$v_{90} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BD_tbp}] - \text{koff_AR} \cdot [\text{cam_RR_ABD_tbp}]) \quad (233)$$

7.91 Reaction ca_binding_to_cam_RR_AD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AD_tbp on site B

Reaction equation



Reactants

Table 276: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AD_tbp	cam_RR_AD_tbp	

Modifiers

Table 277: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AD_tbp	cam_RR_AD_tbp	
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Product

Table 278: Properties of each product.

Id	Name	SBO
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

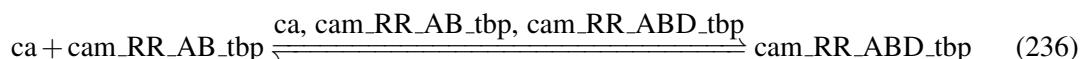
$$v_{91} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_AD_tbp}] - \text{koff_BR} \cdot [\text{cam_RR_ABD_tbp}]) \quad (235)$$

7.92 Reaction ca_binding_to_cam_RR_AB_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AB_tbp on site D

Reaction equation



Reactants

Table 279: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AB_tbp	cam_RR_AB_tbp	

Modifiers

Table 280: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AB_tbp	cam_RR_AB_tbp	
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Product

Table 281: Properties of each product.

Id	Name	SBO
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{92} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_AB_tbp}] - \text{koff_DR} \cdot [\text{cam_RR_ABD_tbp}]) \quad (237)$$

7.93 Reaction ca_binding_to_cam_RR_CD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_CD_0 on site A

Reaction equation



Reactants

Table 282: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_CD_0	cam_RR_CD_0	

Modifiers

Table 283: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_CD_0	cam_RR_CD_0	
cam_RR_ACD_0	cam_RR_ACD_0	

Product

Table 284: Properties of each product.

Id	Name	SBO
cam_RR_ACD_0	cam_RR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{93} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_CD_0}] - \text{koff_AR} \cdot [\text{cam_RR_ACD_0}]) \quad (239)$$

7.94 Reaction ca_binding_to_cam_RR_AD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AD_0 on site C

Reaction equation



Reactants

Table 285: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AD_0	cam_RR_AD_0	

Modifiers

Table 286: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AD_0	cam_RR_AD_0	
cam_RR_ACD_0	cam_RR_ACD_0	

Product

Table 287: Properties of each product.

Id	Name	SBO
cam_RR_ACD_0	cam_RR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{94} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_AD_0}] - \text{koff_CR} \cdot [\text{cam_RR_ACD_0}]) \quad (241)$$

7.95 Reaction ca_binding_to_cam_RR_AC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AC_0 on site D

Reaction equation



Reactants

Table 288: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AC_0	cam_RR_AC_0	

Modifiers

Table 289: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AC_0	cam_RR_AC_0	
cam_RR_ACD_0	cam_RR_ACD_0	

Product

Table 290: Properties of each product.

Id	Name	SBO
cam_RR_ACD_0	cam_RR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

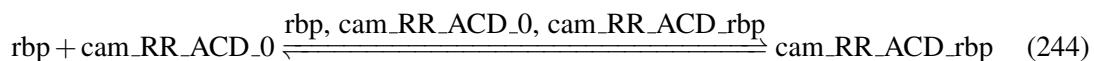
$$v_{95} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_AC_0}] - \text{koff_DR} \cdot [\text{cam_RR_ACD_0}]) \quad (243)$$

7.96 Reaction rbp_binding_to_cam_RR_ACD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_ACD_0

Reaction equation



Reactants

Table 291: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RR_ACD_0	cam_RR_ACD_0	

Modifiers

Table 292: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RR_ACD_0	cam_RR_ACD_0	
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Product

Table 293: Properties of each product.

Id	Name	SBO
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

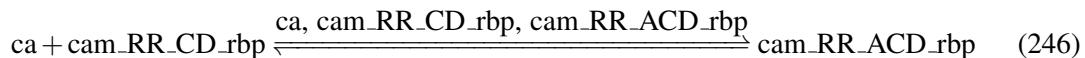
$$v_{96} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_ACD_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_ACD_rbp}]) \quad (245)$$

7.97 Reaction ca_binding_to_cam_RR_CD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_CD_rbp on site A

Reaction equation



Reactants

Table 294: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_CD_rbp	cam_RR_CD_rbp	

Modifiers

Table 295: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_CD_rbp	cam_RR_CD_rbp	
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Product

Table 296: Properties of each product.

Id	Name	SBO
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

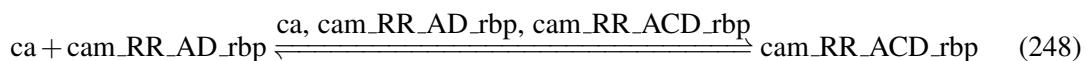
$$v_{97} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_CD_rbp}] - \text{koff_AR} \cdot [\text{cam_RR_ACD_rbp}]) \quad (247)$$

7.98 Reaction ca_binding_to_cam_RR_AD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AD_rbp on site C

Reaction equation



Reactants

Table 297: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AD_rbp	cam_RR_AD_rbp	

Modifiers

Table 298: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AD_rbp	cam_RR_AD_rbp	
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Product

Table 299: Properties of each product.

Id	Name	SBO
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

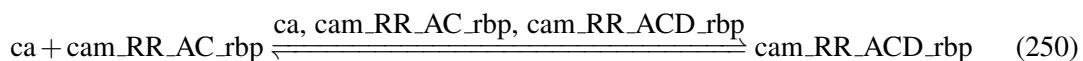
$$v_{98} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_AD_rbp}] - \text{koff_CR} \cdot [\text{cam_RR_ACD_rbp}]) \quad (249)$$

7.99 Reaction ca_binding_to_cam_RR_AC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AC_rbp on site D

Reaction equation



Reactants

Table 300: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AC_rbp	cam_RR_AC_rbp	

Modifiers

Table 301: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AC_rbp	cam_RR_AC_rbp	
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Product

Table 302: Properties of each product.

Id	Name	SBO
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

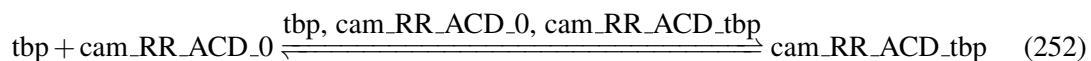
$$v_{99} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_AC_rbp}] - \text{koff_DR} \cdot [\text{cam_RR_ACD_rbp}]) \quad (251)$$

7.100 Reaction tbp_binding_to_cam_RR_ACD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_ACD_0

Reaction equation



Reactants

Table 303: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_ACD_0	cam_RR_ACD_0	

Modifiers

Table 304: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_ACD_0	cam_RR_ACD_0	
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Product

Table 305: Properties of each product.

Id	Name	SBO
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

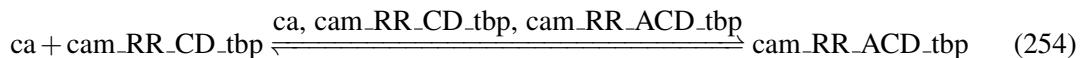
$$v_{100} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_ACD_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_ACD_tbp}]) \quad (253)$$

7.101 Reaction ca_binding_to_cam_RR_CD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_CD_tbp on site A

Reaction equation



Reactants

Table 306: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_CD_tbp	cam_RR_CD_tbp	

Modifiers

Table 307: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_CD_tbp	cam_RR_CD_tbp	
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Product

Table 308: Properties of each product.

Id	Name	SBO
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

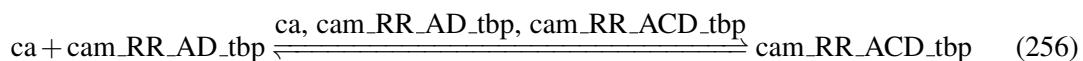
$$v_{101} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_CD_tbp}] - \text{koff_AR} \cdot [\text{cam_RR_ACD_tbp}]) \quad (255)$$

7.102 Reaction ca_binding_to_cam_RR_AD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AD_tbp on site C

Reaction equation



Reactants

Table 309: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AD_tbp	cam_RR_AD_tbp	

Modifiers

Table 310: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AD_tbp	cam_RR_AD_tbp	
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Product

Table 311: Properties of each product.

Id	Name	SBO
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

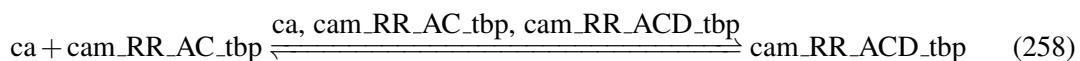
$$v_{102} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_AD_tbp}] - \text{koff_CR} \cdot [\text{cam_RR_ACD_tbp}]) \quad (257)$$

7.103 Reaction ca_binding_to_cam_RR_AC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_AC_tbp on site D

Reaction equation



Reactants

Table 312: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_AC_tbp	cam_RR_AC_tbp	

Modifiers

Table 313: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_AC_tbp	cam_RR_AC_tbp	
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Product

Table 314: Properties of each product.

Id	Name	SBO
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

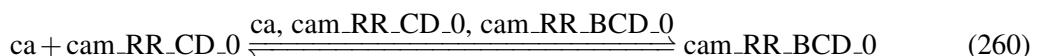
$$v_{103} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_AC_tbp}] - \text{koff_DR} \cdot [\text{cam_RR_ACD_tbp}]) \quad (259)$$

7.104 Reaction ca_binding_to_cam_RR_CD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_CD_0 on site B

Reaction equation



Reactants

Table 315: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_CD_0	cam_RR_CD_0	

Modifiers

Table 316: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_CD_0	cam_RR_CD_0	
cam_RR_BCD_0	cam_RR_BCD_0	

Product

Table 317: Properties of each product.

Id	Name	SBO
cam_RR_BCD_0	cam_RR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{104} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_CD_0}] - \text{koff_BR} \cdot [\text{cam_RR_BCD_0}]) \quad (261)$$

7.105 Reaction ca_binding_to_cam_RR_BD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BD_0 on site C

Reaction equation



Reactants

Table 318: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BD_0	cam_RR_BD_0	

Modifiers

Table 319: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BD_0	cam_RR_BD_0	
cam_RR_BCD_0	cam_RR_BCD_0	

Product

Table 320: Properties of each product.

Id	Name	SBO
cam_RR_BCD_0	cam_RR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{105} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_BD_0}] - \text{koff_CR} \cdot [\text{cam_RR_BCD_0}]) \quad (263)$$

7.106 Reaction ca_binding_to_cam_RR_BC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BC_0 on site D

Reaction equation



Reactants

Table 321: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BC_0	cam_RR_BC_0	

Modifiers

Table 322: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BC_0	cam_RR_BC_0	
cam_RR_BCD_0	cam_RR_BCD_0	

Product

Table 323: Properties of each product.

Id	Name	SBO
cam_RR_BCD_0	cam_RR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

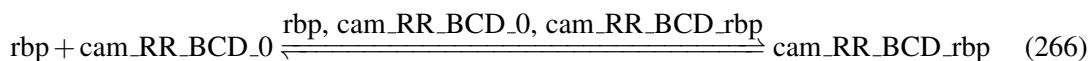
$$v_{106} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_BC_0}] - \text{koff_DR} \cdot [\text{cam_RR_BCD_0}]) \quad (265)$$

7.107 Reaction rbp_binding_to_cam_RR_BCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_BCD_0

Reaction equation



Reactants

Table 324: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RR_BCD_0	cam_RR_BCD_0	

Modifiers

Table 325: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RR_BCD_0	cam_RR_BCD_0	
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Product

Table 326: Properties of each product.

Id	Name	SBO
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

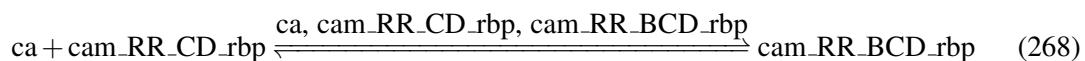
$$v_{107} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RR_BCD_0}] - \text{koff_rbp_RR} \cdot [\text{cam_RR_BCD_rbp}]) \quad (267)$$

7.108 Reaction ca_binding_to_cam_RR_CD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_CD_rbp on site B

Reaction equation



Reactants

Table 327: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_CD_rbp	cam_RR_CD_rbp	

Modifiers

Table 328: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_CD_rbp	cam_RR_CD_rbp	
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Product

Table 329: Properties of each product.

Id	Name	SBO
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

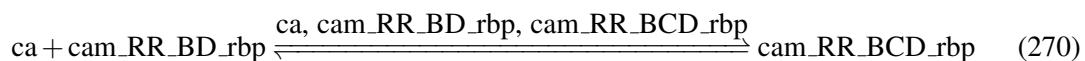
$$v_{108} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_CD_rbp}] - \text{koff_BR} \cdot [\text{cam_RR_BCD_rbp}]) \quad (269)$$

7.109 Reaction ca_binding_to_cam_RR_BD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BD_rbp on site C

Reaction equation



Reactants

Table 330: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BD_rbp	cam_RR_BD_rbp	

Modifiers

Table 331: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BD_rbp	cam_RR_BD_rbp	
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Product

Table 332: Properties of each product.

Id	Name	SBO
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

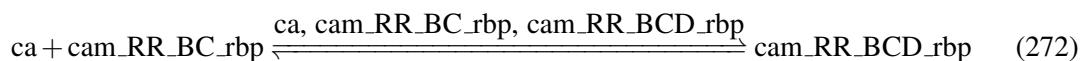
$$v_{109} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_BD_rbp}] - \text{koff_CR} \cdot [\text{cam_RR_BCD_rbp}]) \quad (271)$$

7.110 Reaction ca_binding_to_cam_RR_BC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BC_rbp on site D

Reaction equation



Reactants

Table 333: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BC_rbp	cam_RR_BC_rbp	

Modifiers

Table 334: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BC_rbp	cam_RR_BC_rbp	
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Product

Table 335: Properties of each product.

Id	Name	SBO
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

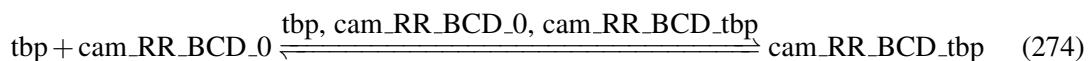
$$v_{110} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_BC_rbp}] - \text{koff_DR} \cdot [\text{cam_RR_BCD_rbp}]) \quad (273)$$

7.111 Reaction tbp_binding_to_cam_RR_BCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_BCD_0

Reaction equation



Reactants

Table 336: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_BCD_0	cam_RR_BCD_0	

Modifiers

Table 337: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_BCD_0	cam_RR_BCD_0	
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Product

Table 338: Properties of each product.

Id	Name	SBO
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

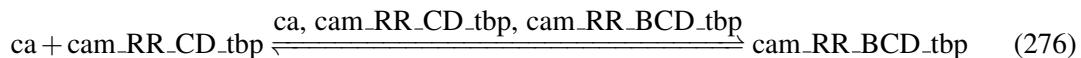
$$v_{111} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_BCD_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_BCD_tbp}]) \quad (275)$$

7.112 Reaction ca_binding_to_cam_RR_CD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_CD_tbp on site B

Reaction equation



Reactants

Table 339: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_CD_tbp	cam_RR_CD_tbp	

Modifiers

Table 340: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_CD_tbp	cam_RR_CD_tbp	
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Product

Table 341: Properties of each product.

Id	Name	SBO
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

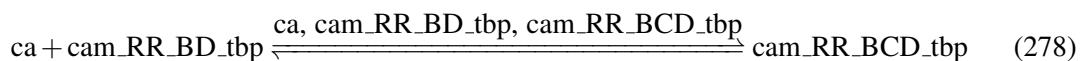
$$v_{112} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_CD_tbp}] - \text{koff_BR} \cdot [\text{cam_RR_BCD_tbp}]) \quad (277)$$

7.113 Reaction ca_binding_to_cam_RR_BD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BD_tbp on site C

Reaction equation



Reactants

Table 342: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BD_tbp	cam_RR_BD_tbp	

Modifiers

Table 343: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BD_tbp	cam_RR_BD_tbp	
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Product

Table 344: Properties of each product.

Id	Name	SBO
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

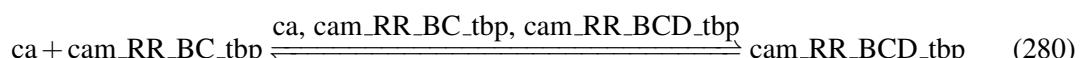
$$v_{113} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_BD_tbp}] - \text{koff_CR} \cdot [\text{cam_RR_BCD_tbp}]) \quad (279)$$

7.114 Reaction ca_binding_to_cam_RR_BC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BC_tbp on site D

Reaction equation



Reactants

Table 345: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BC_tbp	cam_RR_BC_tbp	

Modifiers

Table 346: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BC_tbp	cam_RR_BC_tbp	
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Product

Table 347: Properties of each product.

Id	Name	SBO
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

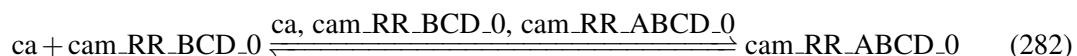
$$v_{114} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_BC_tbp}] - \text{koff_DR} \cdot [\text{cam_RR_BCD_tbp}]) \quad (281)$$

7.115 Reaction ca_binding_to_cam_RR_BCD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BCD_0 on site A

Reaction equation



Reactants

Table 348: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BCD_0	cam_RR_BCD_0	

Modifiers

Table 349: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BCD_0	cam_RR_BCD_0	
cam_RR_ABCD_0	cam_RR_ABCD_0	

Product

Table 350: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_0	cam_RR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

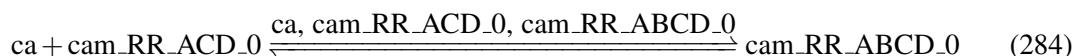
$$v_{115} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BCD_0}] - \text{koff_AR} \cdot [\text{cam_RR_ABCD_0}]) \quad (283)$$

7.116 Reaction ca_binding_to_cam_RR_ACD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ACD_0 on site B

Reaction equation



Reactants

Table 351: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ACD_0	cam_RR_ACD_0	

Modifiers

Table 352: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ACD_0	cam_RR_ACD_0	
cam_RR_ABCD_0	cam_RR_ABCD_0	

Product

Table 353: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_0	cam_RR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

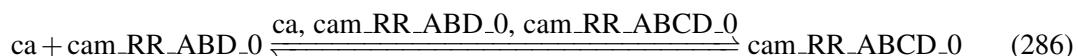
$$v_{116} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_ACD_0}] - \text{koff_BR} \cdot [\text{cam_RR_ABCD_0}]) \quad (285)$$

7.117 Reaction ca_binding_to_cam_RR_ABD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ABD_0 on site C

Reaction equation



Reactants

Table 354: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ABD_0	cam_RR_ABD_0	

Modifiers

Table 355: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ABD_0	cam_RR_ABD_0	
cam_RR_ABCD_0	cam_RR_ABCD_0	

Product

Table 356: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_0	cam_RR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

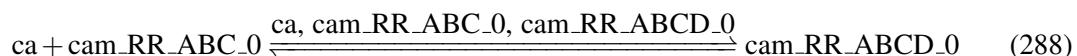
$$v_{117} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_ABD_0}] - \text{koff_CR} \cdot [\text{cam_RR_ABCD_0}]) \quad (287)$$

7.118 Reaction ca_binding_to_cam_RR_ABC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ABC_0 on site D

Reaction equation



Reactants

Table 357: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ABC_0	cam_RR_ABC_0	

Modifiers

Table 358: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ABC_0	cam_RR_ABC_0	
cam_RR_ABCD_0	cam_RR_ABCD_0	

Product

Table 359: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_0	cam_RR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

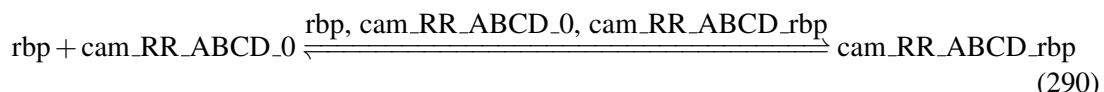
$$v_{118} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_ABC_0}] - \text{koff_DR} \cdot [\text{cam_RR_ABCD_0}]) \quad (289)$$

7.119 Reaction rbp_binding_to_cam_RR_ABCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RR_ABCD_0

Reaction equation



Reactants

Table 360: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RR_ABCD_0	cam_RR_ABCD_0	

Modifiers

Table 361: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RR_ABCD_0	cam_RR_ABCD_0	
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Product

Table 362: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

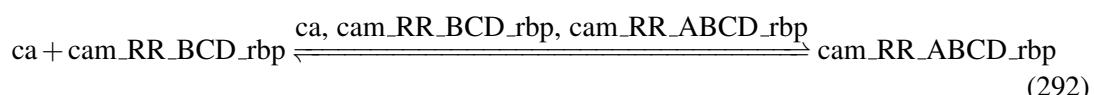
$$v_{119} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RR_ABCD_0}] - \text{koff_rpb_RR} \cdot [\text{cam_RR_ABCD_rbp}]) \quad (291)$$

7.120 Reaction ca_binding_to_cam_RR_BCD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BCD_rbp on site A

Reaction equation



Reactants

Table 363: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BCD_rbp	cam_RR_BCD_rbp	

Modifiers

Table 364: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BCD_rbp	cam_RR_BCD_rbp	
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Product

Table 365: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

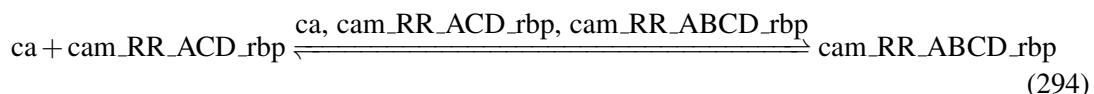
$$v_{120} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BCD_rbp}] - \text{koff_AR} \cdot [\text{cam_RR_ABCD_rbp}]) \quad (293)$$

7.121 Reaction ca_binding_to_cam_RR_ACD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ACD_rbp on site B

Reaction equation



Reactants

Table 366: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ACD_rbp	cam_RR_ACD_rbp	

Modifiers

Table 367: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ACD_rbp	cam_RR_ACD_rbp	
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Product

Table 368: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

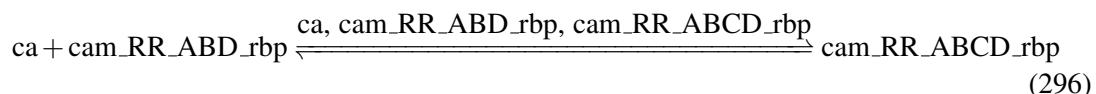
$$v_{121} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_ACD_rbp}] - \text{koff_BR} \cdot [\text{cam_RR_ABCD_rbp}]) \quad (295)$$

7.122 Reaction ca_binding_to_cam_RR_ABD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ABD_rbp on site C

Reaction equation



Reactants

Table 369: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ABD_rbp	cam_RR_ABD_rbp	

Modifiers

Table 370: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ABD_rbp	cam_RR_ABD_rbp	
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Product

Table 371: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

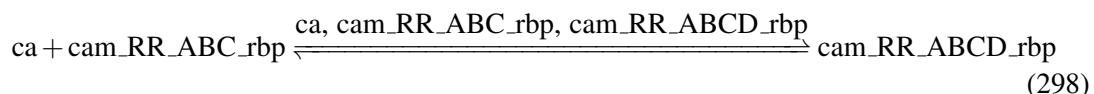
$$v_{122} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_ABD_rbp}] - \text{koff_CR} \cdot [\text{cam_RR_ABCD_rbp}]) \quad (297)$$

7.123 Reaction ca_binding_to_cam_RR_ABC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ABC_rbp on site D

Reaction equation



Reactants

Table 372: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ABC_rbp	cam_RR_ABC_rbp	

Modifiers

Table 373: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ABC_rbp	cam_RR_ABC_rbp	
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Product

Table 374: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_rbp	cam_RR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

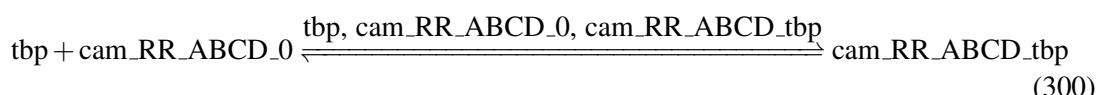
$$v_{123} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_ABC_rbp}] - \text{koff_DR} \cdot [\text{cam_RR_ABCD_rbp}]) \quad (299)$$

7.124 Reaction tbp_binding_to_cam_RR_ABCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RR_ABCD_0

Reaction equation



Reactants

Table 375: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RR_ABCD_0	cam_RR_ABCD_0	

Modifiers

Table 376: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RR_ABCD_0	cam_RR_ABCD_0	
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Product

Table 377: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

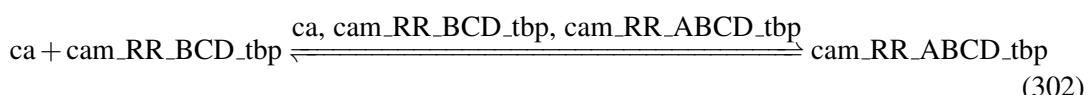
$$v_{124} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RR_ABCD_0}] - \text{koff_tbp_RR} \cdot [\text{cam_RR_ABCD_tbp}]) \quad (301)$$

7.125 Reaction ca_binding_to_cam_RR_BCD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_BCD_tbp on site A

Reaction equation



Reactants

Table 378: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_BCD_tbp	cam_RR_BCD_tbp	

Modifiers

Table 379: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_BCD_tbp	cam_RR_BCD_tbp	
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Product

Table 380: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

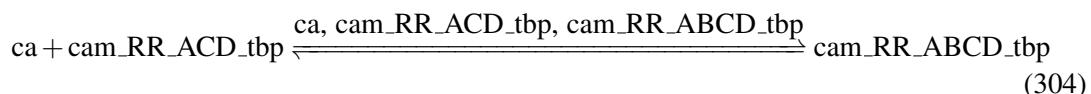
$$v_{125} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RR_BCD_tbp}] - \text{koff_AR} \cdot [\text{cam_RR_ABCD_tbp}]) \quad (303)$$

7.126 Reaction ca_binding_to_cam_RR_ACD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ACD_tbp on site B

Reaction equation



Reactants

Table 381: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ACD_tbp	cam_RR_ACD_tbp	

Modifiers

Table 382: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ACD_tbp	cam_RR_ACD_tbp	
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Product

Table 383: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

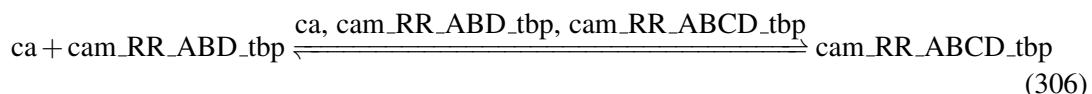
$$v_{126} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RR_ACD_tbp}] - \text{koff_BR} \cdot [\text{cam_RR_ABCD_tbp}]) \quad (305)$$

7.127 Reaction ca_binding_to_cam_RR_ABD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ABD_tbp on site C

Reaction equation



Reactants

Table 384: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ABD_tbp	cam_RR_ABD_tbp	

Modifiers

Table 385: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ABD_tbp	cam_RR_ABD_tbp	
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Product

Table 386: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

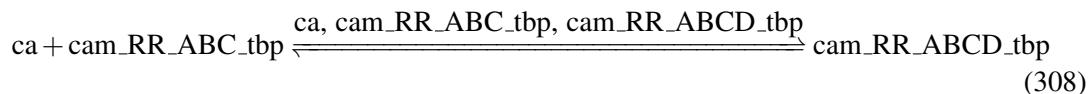
$$v_{127} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_RR_ABD_tbp}] - \text{koff_CR} \cdot [\text{cam_RR_ABCD_tbp}]) \quad (307)$$

7.128 Reaction ca_binding_to_cam_RR_ABC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RR_ABC_tbp on site D

Reaction equation



Reactants

Table 387: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RR_ABC_tbp	cam_RR_ABC_tbp	

Modifiers

Table 388: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RR_ABC_tbp	cam_RR_ABC_tbp	
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Product

Table 389: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_tbp	cam_RR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{128} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_RR_ABC_tbp}] - \text{koff_DR} \cdot [\text{cam_RR_ABCD_tbp}]) \quad (309)$$

7.129 Reaction rbp_binding_to_cam_RT_0_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_0_0

Reaction equation



Reactants

Table 390: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RT_0_0	cam_RT_0_0	

Modifiers

Table 391: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RT_0_0	cam_RT_0_0	
cam_RT_0_rbp	cam_RT_0_rbp	

Product

Table 392: Properties of each product.

Id	Name	SBO
cam_RT_0_rbp	cam_RT_0_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{129} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_0_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_0_rbp}]) \quad (311)$$

7.130 Reaction `tbp_binding_to_cam_RT_0_0`

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name `tbp binding to cam_RT_0_0`

Reaction equation



Reactants

Table 393: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_0_0	cam_RT_0_0	

Modifiers

Table 394: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_0_0	cam_RT_0_0	
cam_RT_0_tbp	cam_RT_0_tbp	

Product

Table 395: Properties of each product.

Id	Name	SBO
cam_RT_0_tbp	cam_RT_0_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{130} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_0_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_0_tbp}]) \quad (313)$$

7.131 Reaction ca_binding_to_cam_RT_0_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_0 on site A

Reaction equation



Reactants

Table 396: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_0	cam_RT_0_0	

Modifiers

Table 397: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_0	cam_RT_0_0	
cam_RT_A_0	cam_RT_A_0	

Product

Table 398: Properties of each product.

Id	Name	SBO
cam_RT_A_0	cam_RT_A_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{131} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_0_0}] - \text{koff_AR} \cdot [\text{cam_RT_A_0}]) \quad (315)$$

7.132 Reaction rbp_binding_to_cam_RT_A_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_A_0

Reaction equation



Reactants

Table 399: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RT_A_0	cam_RT_A_0	

Modifiers

Table 400: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_A_0	cam_RT_A_0	
cam_RT_A_rbp	cam_RT_A_rbp	

Product

Table 401: Properties of each product.

Id	Name	SBO
cam_RT_A_rbp	cam_RT_A_rbp	

Kinetic Law

Derived unit contains undeclared units

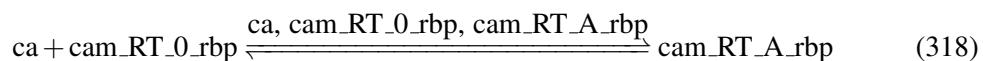
$$v_{132} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RT_A_0}] - \text{koff_rpb_RT} \cdot [\text{cam_RT_A_rbp}]) \quad (317)$$

7.133 Reaction ca_binding_to_cam_RT_0_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_rbp on site A

Reaction equation



Reactants

Table 402: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_rbp	cam_RT_0_rbp	

Modifiers

Table 403: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_rbp	cam_RT_0_rbp	
cam_RT_A_rbp	cam_RT_A_rbp	

Product

Table 404: Properties of each product.

Id	Name	SBO
cam_RT_A_rbp	cam_RT_A_rbp	

Kinetic Law

Derived unit contains undeclared units

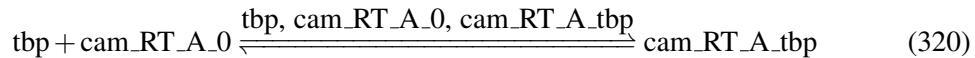
$$v_{133} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_0_rbp}] - \text{koff_AR} \cdot [\text{cam_RT_A_rbp}]) \quad (319)$$

7.134 Reaction tbp_binding_to_cam_RT_A_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_A_0

Reaction equation



Reactants

Table 405: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_A_0	cam_RT_A_0	

Modifiers

Table 406: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_A_0	cam_RT_A_0	
cam_RT_A_tbp	cam_RT_A_tbp	

Product

Table 407: Properties of each product.

Id	Name	SBO
cam_RT_A_tbp	cam_RT_A_tbp	

Kinetic Law

Derived unit contains undeclared units

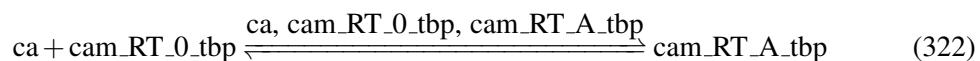
$$v_{134} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_A_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_A_tbp}]) \quad (321)$$

7.135 Reaction ca_binding_to_cam_RT_0_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_tbp on site A

Reaction equation



Reactants

Table 408: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_tbp	cam_RT_0_tbp	

Modifiers

Table 409: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_tbp	cam_RT_0_tbp	
cam_RT_A_tbp	cam_RT_A_tbp	

Product

Table 410: Properties of each product.

Id	Name	SBO
cam_RT_A_tbp	cam_RT_A_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{135} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_0_tbp}] - \text{koff_AR} \cdot [\text{cam_RT_A_tbp}]) \quad (323)$$

7.136 Reaction ca_binding_to_cam_RT_0_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_0 on site B

Reaction equation



Reactants

Table 411: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_0	cam_RT_0_0	

Modifiers

Table 412: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_0	cam_RT_0_0	
cam_RT_B_0	cam_RT_B_0	

Product

Table 413: Properties of each product.

Id	Name	SBO
cam_RT_B_0	cam_RT_B_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{136} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_0_0}] - \text{koff_BR} \cdot [\text{cam_RT_B_0}]) \quad (325)$$

7.137 Reaction rbp_binding_to_cam_RT_B_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_B_0

Reaction equation



Reactants

Table 414: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RT_B_0	cam_RT_B_0	

Modifiers

Table 415: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_B_0	cam_RT_B_0	
cam_RT_B_rpb	cam_RT_B_rpb	

Product

Table 416: Properties of each product.

Id	Name	SBO
cam_RT_B_rpb	cam_RT_B_rpb	

Kinetic Law

Derived unit contains undeclared units

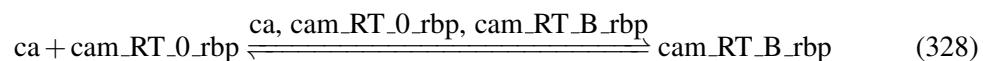
$$v_{137} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RT_B_0}] - \text{koff_rpb_RT} \cdot [\text{cam_RT_B_rbp}]) \quad (327)$$

7.138 Reaction ca_binding_to_cam_RT_0_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_rbp on site B

Reaction equation



Reactants

Table 417: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_rbp	cam_RT_0_rbp	

Modifiers

Table 418: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_rbp	cam_RT_0_rbp	
cam_RT_B_rbp	cam_RT_B_rbp	

Product

Table 419: Properties of each product.

Id	Name	SBO
cam_RT_B_rbp	cam_RT_B_rbp	

Kinetic Law

Derived unit contains undeclared units

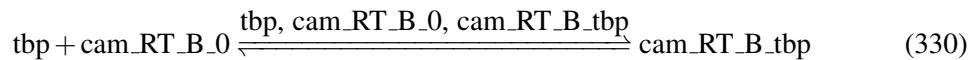
$$v_{138} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_0_rbp}] - \text{koff_BR} \cdot [\text{cam_RT_B_rbp}]) \quad (329)$$

7.139 Reaction tbp_binding_to_cam_RT_B_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_B_0

Reaction equation



Reactants

Table 420: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_B_0	cam_RT_B_0	

Modifiers

Table 421: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_B_0	cam_RT_B_0	
cam_RT_B_tbp	cam_RT_B_tbp	

Product

Table 422: Properties of each product.

Id	Name	SBO
cam_RT_B_tbp	cam_RT_B_tbp	

Kinetic Law

Derived unit contains undeclared units

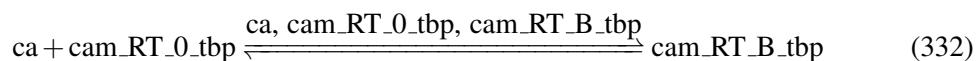
$$v_{139} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_B_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_B_tbp}]) \quad (331)$$

7.140 Reaction ca_binding_to_cam_RT_0_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_tbp on site B

Reaction equation



Reactants

Table 423: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_tbp	cam_RT_0_tbp	

Modifiers

Table 424: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_tbp	cam_RT_0_tbp	
cam_RT_B_tbp	cam_RT_B_tbp	

Product

Table 425: Properties of each product.

Id	Name	SBO
cam_RT_B_tbp	cam_RT_B_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{140} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_0_tbp}] - \text{koff_BR} \cdot [\text{cam_RT_B_tbp}]) \quad (333)$$

7.141 Reaction ca_binding_to_cam_RT_0_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_0 on site C

Reaction equation



Reactants

Table 426: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_0	cam_RT_0_0	

Modifiers

Table 427: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_0	cam_RT_0_0	
cam_RT_C_0	cam_RT_C_0	

Product

Table 428: Properties of each product.

Id	Name	SBO
cam_RT_C_0	cam_RT_C_0	

Kinetic Law

Derived unit contains undeclared units

$$\nu_{141} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_0_0}] - \text{koff_CT} \cdot [\text{cam_RT_C_0}]) \quad (335)$$

7.142 Reaction rbp_binding_to_cam_RT_C_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_C_0

Reaction equation



Reactants

Table 429: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RT_C_0	cam_RT_C_0	

Modifiers

Table 430: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_C_0	cam_RT_C_0	
cam_RT_C_rbp	cam_RT_C_rbp	

Product

Table 431: Properties of each product.

Id	Name	SBO
cam_RT_C_rbp	cam_RT_C_rbp	

Kinetic Law

Derived unit contains undeclared units

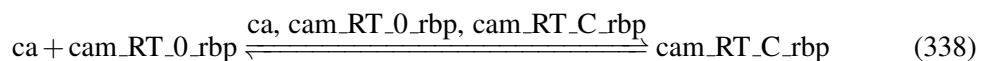
$$v_{142} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RT_C_0}] - \text{koff_rpb_RT} \cdot [\text{cam_RT_C_rbp}]) \quad (337)$$

7.143 Reaction ca_binding_to_cam_RT_0_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_rbp on site C

Reaction equation



Reactants

Table 432: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_rbp	cam_RT_0_rbp	

Modifiers

Table 433: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_rbp	cam_RT_0_rbp	
cam_RT_C_rbp	cam_RT_C_rbp	

Product

Table 434: Properties of each product.

Id	Name	SBO
cam_RT_C_rbp	cam_RT_C_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{143} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_0_rbp}] - \text{koff_CT} \cdot [\text{cam_RT_C_rbp}]) \quad (339)$$

7.144 Reaction tbp_binding_to_cam_RT_C_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_C_0

Reaction equation



Reactants

Table 435: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_C_0	cam_RT_C_0	

Modifiers

Table 436: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_C_0	cam_RT_C_0	
cam_RT_C_tbp	cam_RT_C_tbp	

Product

Table 437: Properties of each product.

Id	Name	SBO
cam_RT_C_tbp	cam_RT_C_tbp	

Kinetic Law

Derived unit contains undeclared units

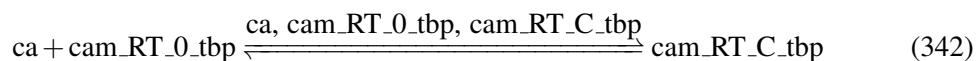
$$v_{144} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_C_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_C_tbp}]) \quad (341)$$

7.145 Reaction ca_binding_to_cam_RT_0_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_tbp on site C

Reaction equation



Reactants

Table 438: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_tbp	cam_RT_0_tbp	

Modifiers

Table 439: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_tbp	cam_RT_0_tbp	
cam_RT_C_tbp	cam_RT_C_tbp	

Product

Table 440: Properties of each product.

Id	Name	SBO
cam_RT_C_tbp	cam_RT_C_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{145} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_0_tbp}] - \text{koff_CT} \cdot [\text{cam_RT_C_tbp}]) \quad (343)$$

7.146 Reaction ca_binding_to_cam_RT_0_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_0 on site D

Reaction equation



Reactants

Table 441: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_0	cam_RT_0_0	

Modifiers

Table 442: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_0	cam_RT_0_0	
cam_RT_D_0	cam_RT_D_0	

Product

Table 443: Properties of each product.

Id	Name	SBO
cam_RT_D_0	cam_RT_D_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{146} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_0_0}] - \text{koff_DT} \cdot [\text{cam_RT_D_0}]) \quad (345)$$

7.147 Reaction rbp_binding_to_cam_RT_D_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_D_0

Reaction equation



Reactants

Table 444: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RT_D_0	cam_RT_D_0	

Modifiers

Table 445: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_D_0	cam_RT_D_0	
cam_RT_D_rbp	cam_RT_D_rbp	

Product

Table 446: Properties of each product.

Id	Name	SBO
cam_RT_D_rbp	cam_RT_D_rbp	

Kinetic Law

Derived unit contains undeclared units

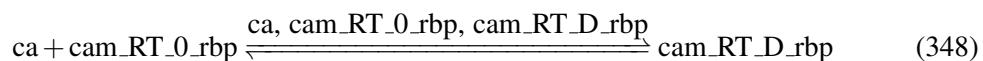
$$v_{147} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RT_D_0}] - \text{koff_rpb_RT} \cdot [\text{cam_RT_D_rbp}]) \quad (347)$$

7.148 Reaction ca_binding_to_cam_RT_0_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_rbp on site D

Reaction equation



Reactants

Table 447: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_rbp	cam_RT_0_rbp	

Modifiers

Table 448: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_rbp	cam_RT_0_rbp	
cam_RT_D_rbp	cam_RT_D_rbp	

Product

Table 449: Properties of each product.

Id	Name	SBO
cam_RT_D_rbp	cam_RT_D_rbp	

Kinetic Law

Derived unit contains undeclared units

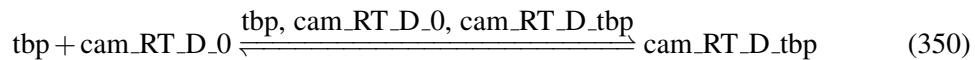
$$v_{148} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_0_rbp}] - \text{koff_DT} \cdot [\text{cam_RT_D_rbp}]) \quad (349)$$

7.149 Reaction tbp_binding_to_cam_RT_D_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_D_0

Reaction equation



Reactants

Table 450: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_D_0	cam_RT_D_0	

Modifiers

Table 451: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_D_0	cam_RT_D_0	
cam_RT_D_tbp	cam_RT_D_tbp	

Product

Table 452: Properties of each product.

Id	Name	SBO
cam_RT_D_tbp	cam_RT_D_tbp	

Kinetic Law

Derived unit contains undeclared units

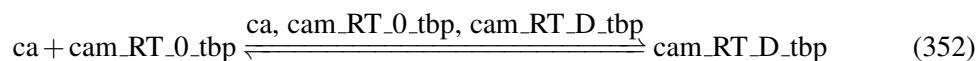
$$v_{149} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_D_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_D_tbp}]) \quad (351)$$

7.150 Reaction ca_binding_to_cam_RT_0_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_0_tbp on site D

Reaction equation



Reactants

Table 453: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_0_tbp	cam_RT_0_tbp	

Modifiers

Table 454: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_0_tbp	cam_RT_0_tbp	
cam_RT_D_tbp	cam_RT_D_tbp	

Product

Table 455: Properties of each product.

Id	Name	SBO
cam_RT_D_tbp	cam_RT_D_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{150} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_0_tbp}] - \text{koff_DT} \cdot [\text{cam_RT_D_tbp}]) \quad (353)$$

7.151 Reaction ca_binding_to_cam_RT_B_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_0 on site A

Reaction equation



Reactants

Table 456: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_0	cam_RT_B_0	

Modifiers

Table 457: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_0	cam_RT_B_0	
cam_RT_AB_0	cam_RT_AB_0	

Product

Table 458: Properties of each product.

Id	Name	SBO
cam_RT_AB_0	cam_RT_AB_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{151} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_B_0}] - \text{koff_AR} \cdot [\text{cam_RT_AB_0}]) \quad (355)$$

7.152 Reaction ca_binding_to_cam_RT_A_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_0 on site B

Reaction equation



Reactants

Table 459: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_0	cam_RT_A_0	

Modifiers

Table 460: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_0	cam_RT_A_0	
cam_RT_AB_0	cam_RT_AB_0	

Product

Table 461: Properties of each product.

Id	Name	SBO
cam_RT_AB_0	cam_RT_AB_0	

Kinetic Law

Derived unit contains undeclared units

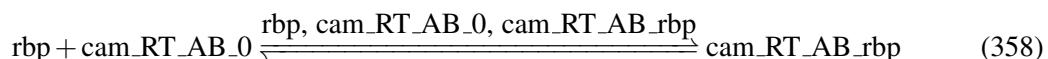
$$v_{152} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_A_0}] - \text{koff_BR} \cdot [\text{cam_RT_AB_0}]) \quad (357)$$

7.153 Reaction rbp_binding_to_cam_RT_AB_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_AB_0

Reaction equation



Reactants

Table 462: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RT_AB_0	cam_RT_AB_0	

Modifiers

Table 463: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_AB_0	cam_RT_AB_0	
cam_RT_AB_rbp	cam_RT_AB_rbp	

Product

Table 464: Properties of each product.

Id	Name	SBO
cam_RT_AB_rbp	cam_RT_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{153} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RT_AB_0}] - \text{koff_rpb_RT} \cdot [\text{cam_RT_AB_rbp}]) \quad (359)$$

7.154 Reaction ca_binding_to_cam_RT_B_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_rbp on site A

Reaction equation



Reactants

Table 465: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_rbp	cam_RT_B_rbp	

Modifiers

Table 466: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_rbp	cam_RT_B_rbp	
cam_RT_AB_rbp	cam_RT_AB_rbp	

Product

Table 467: Properties of each product.

Id	Name	SBO
cam_RT_AB_rbp	cam_RT_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{154} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_B_rbp}] - \text{koff_AR} \cdot [\text{cam_RT_AB_rbp}]) \quad (361)$$

7.155 Reaction ca_binding_to_cam_RT_A_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_rbp on site B

Reaction equation



Reactants

Table 468: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_rbp	cam_RT_A_rbp	

Modifiers

Table 469: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_rbp	cam_RT_A_rbp	
cam_RT_AB_rbp	cam_RT_AB_rbp	

Product

Table 470: Properties of each product.

Id	Name	SBO
cam_RT_AB_rbp	cam_RT_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{155} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_A_rbp}] - \text{koff_BR} \cdot [\text{cam_RT_AB_rbp}]) \quad (363)$$

7.156 Reaction tbp_binding_to_cam_RT_AB_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_AB_0

Reaction equation



Reactants

Table 471: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_AB_0	cam_RT_AB_0	

Modifiers

Table 472: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_AB_0	cam_RT_AB_0	
cam_RT_AB_tbp	cam_RT_AB_tbp	

Product

Table 473: Properties of each product.

Id	Name	SBO
cam_RT_AB_tbp	cam_RT_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{156} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_AB_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_AB_tbp}]) \quad (365)$$

7.157 Reaction ca_binding_to_cam_RT_B_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_tbp on site A

Reaction equation



Reactants

Table 474: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_tbp	cam_RT_B_tbp	

Modifiers

Table 475: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_tbp	cam_RT_B_tbp	
cam_RT_AB_tbp	cam_RT_AB_tbp	

Product

Table 476: Properties of each product.

Id	Name	SBO
cam_RT_AB_tbp	cam_RT_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{157} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_B_tbp}] - \text{koff_AR} \cdot [\text{cam_RT_AB_tbp}]) \quad (367)$$

7.158 Reaction ca_binding_to_cam_RT_A_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_tbp on site B

Reaction equation



Reactants

Table 477: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_tbp	cam_RT_A_tbp	

Modifiers

Table 478: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_tbp	cam_RT_A_tbp	
cam_RT_AB_tbp	cam_RT_AB_tbp	

Product

Table 479: Properties of each product.

Id	Name	SBO
cam_RT_AB_tbp	cam_RT_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{158} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_A_tbp}] - \text{koff_BR} \cdot [\text{cam_RT_AB_tbp}]) \quad (369)$$

7.159 Reaction ca_binding_to_cam_RT_C_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_0 on site A

Reaction equation



Reactants

Table 480: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_0	cam_RT_C_0	

Modifiers

Table 481: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_0	cam_RT_C_0	
cam_RT_AC_0	cam_RT_AC_0	

Product

Table 482: Properties of each product.

Id	Name	SBO
cam_RT_AC_0	cam_RT_AC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{159} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_C_0}] - \text{koff_AR} \cdot [\text{cam_RT_AC_0}]) \quad (371)$$

7.160 Reaction ca_binding_to_cam_RT_A_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_0 on site C

Reaction equation



Reactants

Table 483: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_0	cam_RT_A_0	

Modifiers

Table 484: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_0	cam_RT_A_0	
cam_RT_AC_0	cam_RT_AC_0	

Product

Table 485: Properties of each product.

Id	Name	SBO
cam_RT_AC_0	cam_RT_AC_0	

Kinetic Law

Derived unit contains undeclared units

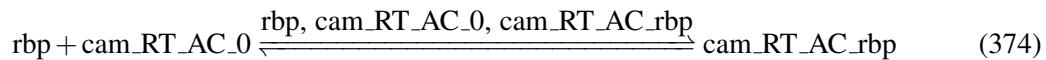
$$v_{160} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_A_0}] - \text{koff_CT} \cdot [\text{cam_RT_AC_0}]) \quad (373)$$

7.161 Reaction rbp_binding_to_cam_RT_AC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_AC_0

Reaction equation



Reactants

Table 486: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RT_AC_0	cam_RT_AC_0	

Modifiers

Table 487: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RT_AC_0	cam_RT_AC_0	
cam_RT_AC_rbp	cam_RT_AC_rbp	

Product

Table 488: Properties of each product.

Id	Name	SBO
cam_RT_AC_rbp	cam_RT_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{161} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_AC_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_AC_rbp}]) \quad (375)$$

7.162 Reaction ca_binding_to_cam_RT_C_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_rbp on site A

Reaction equation



Reactants

Table 489: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_rbp	cam_RT_C_rbp	

Modifiers

Table 490: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_rbp	cam_RT_C_rbp	
cam_RT_AC_rbp	cam_RT_AC_rbp	

Product

Table 491: Properties of each product.

Id	Name	SBO
cam_RT_AC_rbp	cam_RT_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{162} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_C_rbp}] - \text{koff_AR} \cdot [\text{cam_RT_AC_rbp}]) \quad (377)$$

7.163 Reaction ca_binding_to_cam_RT_A_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_rbp on site C

Reaction equation



Reactants

Table 492: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_rbp	cam_RT_A_rbp	

Modifiers

Table 493: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_rbp	cam_RT_A_rbp	
cam_RT_AC_rbp	cam_RT_AC_rbp	

Product

Table 494: Properties of each product.

Id	Name	SBO
cam_RT_AC_rbp	cam_RT_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

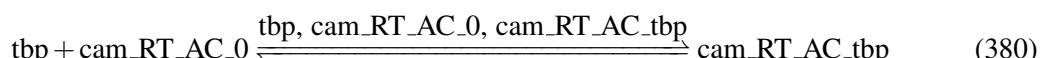
$$v_{163} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_A_rbp}] - \text{koff_CT} \cdot [\text{cam_RT_AC_rbp}]) \quad (379)$$

7.164 Reaction tbp_binding_to_cam_RT_AC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_AC_0

Reaction equation



Reactants

Table 495: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_AC_0	cam_RT_AC_0	

Modifiers

Table 496: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_AC_0	cam_RT_AC_0	
cam_RT_AC_tbp	cam_RT_AC_tbp	

Product

Table 497: Properties of each product.

Id	Name	SBO
cam_RT_AC_tbp	cam_RT_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{164} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_AC_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_AC_tbp}]) \quad (381)$$

7.165 Reaction ca_binding_to_cam_RT_C_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_tbp on site A

Reaction equation



Reactants

Table 498: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_tbp	cam_RT_C_tbp	

Modifiers

Table 499: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_tbp	cam_RT_C_tbp	
cam_RT_AC_tbp	cam_RT_AC_tbp	

Product

Table 500: Properties of each product.

Id	Name	SBO
cam_RT_AC_tbp	cam_RT_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{165} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_C_tbp}] - \text{koff_AR} \cdot [\text{cam_RT_AC_tbp}]) \quad (383)$$

7.166 Reaction ca_binding_to_cam_RT_A_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_tbp on site C

Reaction equation



Reactants

Table 501: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_tbp	cam_RT_A_tbp	

Modifiers

Table 502: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_tbp	cam_RT_A_tbp	
cam_RT_AC_tbp	cam_RT_AC_tbp	

Product

Table 503: Properties of each product.

Id	Name	SBO
cam_RT_AC_tbp	cam_RT_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{166} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_A_tbp}] - \text{koff_CT} \cdot [\text{cam_RT_AC_tbp}]) \quad (385)$$

7.167 Reaction ca_binding_to_cam_RT_D_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_0 on site A

Reaction equation



Reactants

Table 504: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_0	cam_RT_D_0	

Modifiers

Table 505: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_0	cam_RT_D_0	
cam_RT_AD_0	cam_RT_AD_0	

Product

Table 506: Properties of each product.

Id	Name	SBO
cam_RT_AD_0	cam_RT_AD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{167} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_D_0}] - \text{koff_AR} \cdot [\text{cam_RT_AD_0}]) \quad (387)$$

7.168 Reaction ca_binding_to_cam_RT_A_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_0 on site D

Reaction equation



Reactants

Table 507: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_0	cam_RT_A_0	

Modifiers

Table 508: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_0	cam_RT_A_0	
cam_RT_AD_0	cam_RT_AD_0	

Product

Table 509: Properties of each product.

Id	Name	SBO
cam_RT_AD_0	cam_RT_AD_0	

Kinetic Law

Derived unit contains undeclared units

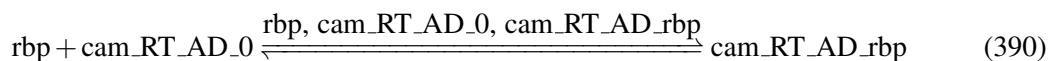
$$v_{168} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_A_0}] - \text{koff_DT} \cdot [\text{cam_RT_AD_0}]) \quad (389)$$

7.169 Reaction rbp_binding_to_cam_RT_AD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_AD_0

Reaction equation



Reactants

Table 510: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RT_AD_0	cam_RT_AD_0	

Modifiers

Table 511: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RT_AD_0	cam_RT_AD_0	
cam_RT_AD_rbp	cam_RT_AD_rbp	

Product

Table 512: Properties of each product.

Id	Name	SBO
cam_RT_AD_rbp	cam_RT_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{169} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_AD_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_AD_rbp}]) \quad (391)$$

7.170 Reaction ca_binding_to_cam_RT_D_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_rbp on site A

Reaction equation



Reactants

Table 513: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_rbp	cam_RT_D_rbp	

Modifiers

Table 514: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_rbp	cam_RT_D_rbp	
cam_RT_AD_rbp	cam_RT_AD_rbp	

Product

Table 515: Properties of each product.

Id	Name	SBO
cam_RT_AD_rbp	cam_RT_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

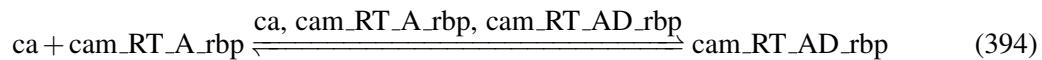
$$v_{170} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_D_rbp}] - \text{koff_AR} \cdot [\text{cam_RT_AD_rbp}]) \quad (393)$$

7.171 Reaction ca_binding_to_cam_RT_A_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_rbp on site D

Reaction equation



Reactants

Table 516: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_rbp	cam_RT_A_rbp	

Modifiers

Table 517: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_rbp	cam_RT_A_rbp	
cam_RT_AD_rbp	cam_RT_AD_rbp	

Product

Table 518: Properties of each product.

Id	Name	SBO
cam_RT_AD_rbp	cam_RT_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

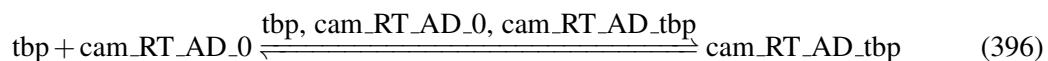
$$v_{171} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_A_rbp}] - \text{koff_DT} \cdot [\text{cam_RT_AD_rbp}]) \quad (395)$$

7.172 Reaction tbp_binding_to_cam_RT_AD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_AD_0

Reaction equation



Reactants

Table 519: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_AD_0	cam_RT_AD_0	

Modifiers

Table 520: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_AD_0	cam_RT_AD_0	
cam_RT_AD_tbp	cam_RT_AD_tbp	

Product

Table 521: Properties of each product.

Id	Name	SBO
cam_RT_AD_tbp	cam_RT_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{172} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_AD_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_AD_tbp}]) \quad (397)$$

7.173 Reaction ca_binding_to_cam_RT_D_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_tbp on site A

Reaction equation



Reactants

Table 522: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_tbp	cam_RT_D_tbp	

Modifiers

Table 523: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_tbp	cam_RT_D_tbp	
cam_RT_AD_tbp	cam_RT_AD_tbp	

Product

Table 524: Properties of each product.

Id	Name	SBO
cam_RT_AD_tbp	cam_RT_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{173} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_D_tbp}] - \text{koff_AR} \cdot [\text{cam_RT_AD_tbp}]) \quad (399)$$

7.174 Reaction ca_binding_to_cam_RT_A_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_A_tbp on site D

Reaction equation



Reactants

Table 525: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_A_tbp	cam_RT_A_tbp	

Modifiers

Table 526: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_A_tbp	cam_RT_A_tbp	
cam_RT_AD_tbp	cam_RT_AD_tbp	

Product

Table 527: Properties of each product.

Id	Name	SBO
cam_RT_AD_tbp	cam_RT_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{174} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_A_tbp}] - \text{koff_DT} \cdot [\text{cam_RT_AD_tbp}]) \quad (401)$$

7.175 Reaction ca_binding_to_cam_RT_C_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_0 on site B

Reaction equation



Reactants

Table 528: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_0	cam_RT_C_0	

Modifiers

Table 529: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_0	cam_RT_C_0	
cam_RT_BC_0	cam_RT_BC_0	

Product

Table 530: Properties of each product.

Id	Name	SBO
cam_RT_BC_0	cam_RT_BC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{175} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_C_0}] - \text{koff_BR} \cdot [\text{cam_RT_BC_0}]) \quad (403)$$

7.176 Reaction ca_binding_to_cam_RT_B_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_0 on site C

Reaction equation



Reactants

Table 531: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_0	cam_RT_B_0	

Modifiers

Table 532: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_0	cam_RT_B_0	
cam_RT_BC_0	cam_RT_BC_0	

Product

Table 533: Properties of each product.

Id	Name	SBO
cam_RT_BC_0	cam_RT_BC_0	

Kinetic Law

Derived unit contains undeclared units

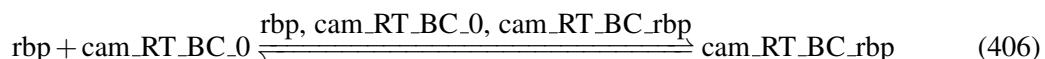
$$v_{176} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_B_0}] - \text{koff_CT} \cdot [\text{cam_RT_BC_0}]) \quad (405)$$

7.177 Reaction rbp_binding_to_cam_RT_BC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_BC_0

Reaction equation



Reactants

Table 534: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RT_BC_0	cam_RT_BC_0	

Modifiers

Table 535: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RT_BC_0	cam_RT_BC_0	
cam_RT_BC_rbp	cam_RT_BC_rbp	

Product

Table 536: Properties of each product.

Id	Name	SBO
cam_RT_BC_rbp	cam_RT_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{177} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_BC_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_BC_rbp}]) \quad (407)$$

7.178 Reaction ca_binding_to_cam_RT_C_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_rbp on site B

Reaction equation



Reactants

Table 537: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_rbp	cam_RT_C_rbp	

Modifiers

Table 538: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_rbp	cam_RT_C_rbp	
cam_RT_BC_rbp	cam_RT_BC_rbp	

Product

Table 539: Properties of each product.

Id	Name	SBO
cam_RT_BC_rbp	cam_RT_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{178} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_C_rbp}] - \text{koff_BR} \cdot [\text{cam_RT_BC_rbp}]) \quad (409)$$

7.179 Reaction ca_binding_to_cam_RT_B_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_rbp on site C

Reaction equation



Reactants

Table 540: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_rbp	cam_RT_B_rbp	

Modifiers

Table 541: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_rbp	cam_RT_B_rbp	
cam_RT_BC_rbp	cam_RT_BC_rbp	

Product

Table 542: Properties of each product.

Id	Name	SBO
cam_RT_BC_rbp	cam_RT_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{179} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_B_rbp}] - \text{koff_CT} \cdot [\text{cam_RT_BC_rbp}]) \quad (411)$$

7.180 Reaction tbp_binding_to_cam_RT_BC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_BC_0

Reaction equation



Reactants

Table 543: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_BC_0	cam_RT_BC_0	

Modifiers

Table 544: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_BC_0	cam_RT_BC_0	
cam_RT_BC_tbp	cam_RT_BC_tbp	

Product

Table 545: Properties of each product.

Id	Name	SBO
cam_RT_BC_tbp	cam_RT_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{180} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_BC_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_BC_tbp}]) \quad (413)$$

7.181 Reaction ca_binding_to_cam_RT_C_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_tbp on site B

Reaction equation



Reactants

Table 546: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_tbp	cam_RT_C_tbp	

Modifiers

Table 547: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_tbp	cam_RT_C_tbp	
cam_RT_BC_tbp	cam_RT_BC_tbp	

Product

Table 548: Properties of each product.

Id	Name	SBO
cam_RT_BC_tbp	cam_RT_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{181} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_C_tbp}] - \text{koff_BR} \cdot [\text{cam_RT_BC_tbp}]) \quad (415)$$

7.182 Reaction ca_binding_to_cam_RT_B_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_tbp on site C

Reaction equation



Reactants

Table 549: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_tbp	cam_RT_B_tbp	

Modifiers

Table 550: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_tbp	cam_RT_B_tbp	
cam_RT_BC_tbp	cam_RT_BC_tbp	

Product

Table 551: Properties of each product.

Id	Name	SBO
cam_RT_BC_tbp	cam_RT_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{182} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_B_tbp}] - \text{koff_CT} \cdot [\text{cam_RT_BC_tbp}]) \quad (417)$$

7.183 Reaction ca_binding_to_cam_RT_D_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_0 on site B

Reaction equation



Reactants

Table 552: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_0	cam_RT_D_0	

Modifiers

Table 553: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_0	cam_RT_D_0	
cam_RT_BD_0	cam_RT_BD_0	

Product

Table 554: Properties of each product.

Id	Name	SBO
cam_RT_BD_0	cam_RT_BD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{183} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_D_0}] - \text{koff_BR} \cdot [\text{cam_RT_BD_0}]) \quad (419)$$

7.184 Reaction ca_binding_to_cam_RT_B_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_0 on site D

Reaction equation



Reactants

Table 555: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_0	cam_RT_B_0	

Modifiers

Table 556: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_0	cam_RT_B_0	
cam_RT_BD_0	cam_RT_BD_0	

Product

Table 557: Properties of each product.

Id	Name	SBO
cam_RT_BD_0	cam_RT_BD_0	

Kinetic Law

Derived unit contains undeclared units

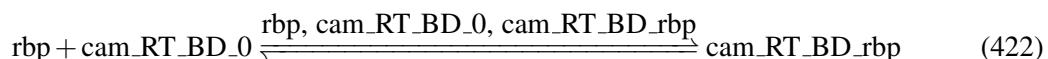
$$v_{184} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_B_0}] - \text{koff_DT} \cdot [\text{cam_RT_BD_0}]) \quad (421)$$

7.185 Reaction rbp_binding_to_cam_RT_BD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_BD_0

Reaction equation



Reactants

Table 558: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RT_BD_0	cam_RT_BD_0	

Modifiers

Table 559: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_BD_0	cam_RT_BD_0	
cam_RT_BD_rbp	cam_RT_BD_rbp	

Product

Table 560: Properties of each product.

Id	Name	SBO
cam_RT_BD_rbp	cam_RT_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{185} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RT_BD_0}] - \text{koff_rpb_RT} \cdot [\text{cam_RT_BD_rbp}]) \quad (423)$$

7.186 Reaction ca_binding_to_cam_RT_D_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_rbp on site B

Reaction equation



Reactants

Table 561: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_rbp	cam_RT_D_rbp	

Modifiers

Table 562: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_rbp	cam_RT_D_rbp	
cam_RT_BD_rbp	cam_RT_BD_rbp	

Product

Table 563: Properties of each product.

Id	Name	SBO
cam_RT_BD_rbp	cam_RT_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{186} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_D_rbp}] - \text{koff_BR} \cdot [\text{cam_RT_BD_rbp}]) \quad (425)$$

7.187 Reaction ca_binding_to_cam_RT_B_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_rbp on site D

Reaction equation



Reactants

Table 564: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_rbp	cam_RT_B_rbp	

Modifiers

Table 565: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_rbp	cam_RT_B_rbp	
cam_RT_BD_rbp	cam_RT_BD_rbp	

Product

Table 566: Properties of each product.

Id	Name	SBO
cam_RT_BD_rbp	cam_RT_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{187} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_B_rbp}] - \text{koff_DT} \cdot [\text{cam_RT_BD_rbp}]) \quad (427)$$

7.188 Reaction tbp_binding_to_cam_RT_BD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_BD_0

Reaction equation



Reactants

Table 567: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_BD_0	cam_RT_BD_0	

Modifiers

Table 568: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_BD_0	cam_RT_BD_0	
cam_RT_BD_tbp	cam_RT_BD_tbp	

Product

Table 569: Properties of each product.

Id	Name	SBO
cam_RT_BD_tbp	cam_RT_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{188} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_BD_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_BD_tbp}]) \quad (429)$$

7.189 Reaction ca_binding_to_cam_RT_D_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_tbp on site B

Reaction equation



Reactants

Table 570: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_tbp	cam_RT_D_tbp	

Modifiers

Table 571: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_tbp	cam_RT_D_tbp	
cam_RT_BD_tbp	cam_RT_BD_tbp	

Product

Table 572: Properties of each product.

Id	Name	SBO
cam_RT_BD_tbp	cam_RT_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{189} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_D_tbp}] - \text{koff_BR} \cdot [\text{cam_RT_BD_tbp}]) \quad (431)$$

7.190 Reaction ca_binding_to_cam_RT_B_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_B_tbp on site D

Reaction equation



Reactants

Table 573: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_B_tbp	cam_RT_B_tbp	

Modifiers

Table 574: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_B_tbp	cam_RT_B_tbp	
cam_RT_BD_tbp	cam_RT_BD_tbp	

Product

Table 575: Properties of each product.

Id	Name	SBO
cam_RT_BD_tbp	cam_RT_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{190} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_B_tbp}] - \text{koff_DT} \cdot [\text{cam_RT_BD_tbp}]) \quad (433)$$

7.191 Reaction ca_binding_to_cam_RT_D_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_0 on site C

Reaction equation



Reactants

Table 576: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_0	cam_RT_D_0	

Modifiers

Table 577: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_0	cam_RT_D_0	
cam_RT_CD_0	cam_RT_CD_0	

Product

Table 578: Properties of each product.

Id	Name	SBO
cam_RT_CD_0	cam_RT_CD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{191} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_D_0}] - \text{koff_CT} \cdot [\text{cam_RT_CD_0}]) \quad (435)$$

7.192 Reaction ca_binding_to_cam_RT_C_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_0 on site D

Reaction equation



Reactants

Table 579: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_0	cam_RT_C_0	

Modifiers

Table 580: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_0	cam_RT_C_0	
cam_RT_CD_0	cam_RT_CD_0	

Product

Table 581: Properties of each product.

Id	Name	SBO
cam_RT_CD_0	cam_RT_CD_0	

Kinetic Law

Derived unit contains undeclared units

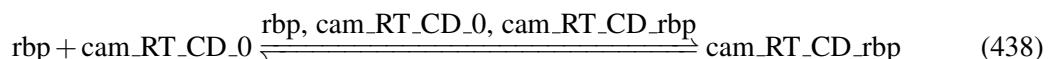
$$v_{192} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_C_0}] - \text{koff_DT} \cdot [\text{cam_RT_CD_0}]) \quad (437)$$

7.193 Reaction rbp_binding_to_cam_RT_CD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_CD_0

Reaction equation



Reactants

Table 582: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_RT_CD_0	cam_RT_CD_0	

Modifiers

Table 583: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_CD_0	cam_RT_CD_0	
cam_RT_CD_rbp	cam_RT_CD_rbp	

Product

Table 584: Properties of each product.

Id	Name	SBO
cam_RT_CD_rbp	cam_RT_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{193} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_RT_CD_0}] - \text{koff_rpb_RT} \cdot [\text{cam_RT_CD_rbp}]) \quad (439)$$

7.194 Reaction ca_binding_to_cam_RT_D_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_rbp on site C

Reaction equation



Reactants

Table 585: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_rbp	cam_RT_D_rbp	

Modifiers

Table 586: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_rbp	cam_RT_D_rbp	
cam_RT_CD_rbp	cam_RT_CD_rbp	

Product

Table 587: Properties of each product.

Id	Name	SBO
cam_RT_CD_rbp	cam_RT_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{194} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_D_rbp}] - \text{koff_CT} \cdot [\text{cam_RT_CD_rbp}]) \quad (441)$$

7.195 Reaction ca_binding_to_cam_RT_C_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_rbp on site D

Reaction equation



Reactants

Table 588: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_rbp	cam_RT_C_rbp	

Modifiers

Table 589: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_rbp	cam_RT_C_rbp	
cam_RT_CD_rbp	cam_RT_CD_rbp	

Product

Table 590: Properties of each product.

Id	Name	SBO
cam_RT_CD_rbp	cam_RT_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{195} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_C_rbp}] - \text{koff_DT} \cdot [\text{cam_RT_CD_rbp}]) \quad (443)$$

7.196 Reaction tbp_binding_to_cam_RT_CD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_CD_0

Reaction equation



Reactants

Table 591: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_CD_0	cam_RT_CD_0	

Modifiers

Table 592: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_CD_0	cam_RT_CD_0	
cam_RT_CD_tbp	cam_RT_CD_tbp	

Product

Table 593: Properties of each product.

Id	Name	SBO
cam_RT_CD_tbp	cam_RT_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{196} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_CD_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_CD_tbp}]) \quad (445)$$

7.197 Reaction ca_binding_to_cam_RT_D_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_D_tbp on site C

Reaction equation



Reactants

Table 594: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_D_tbp	cam_RT_D_tbp	

Modifiers

Table 595: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_D_tbp	cam_RT_D_tbp	
cam_RT_CD_tbp	cam_RT_CD_tbp	

Product

Table 596: Properties of each product.

Id	Name	SBO
cam_RT_CD_tbp	cam_RT_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{197} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_D_tbp}] - \text{koff_CT} \cdot [\text{cam_RT_CD_tbp}]) \quad (447)$$

7.198 Reaction ca_binding_to_cam_RT_C_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_C_tbp on site D

Reaction equation



Reactants

Table 597: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_C_tbp	cam_RT_C_tbp	

Modifiers

Table 598: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_C_tbp	cam_RT_C_tbp	
cam_RT_CD_tbp	cam_RT_CD_tbp	

Product

Table 599: Properties of each product.

Id	Name	SBO
cam_RT_CD_tbp	cam_RT_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

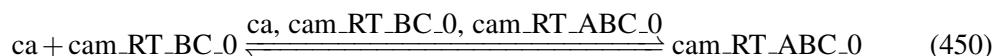
$$v_{198} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_C_tbp}] - \text{koff_DT} \cdot [\text{cam_RT_CD_tbp}]) \quad (449)$$

7.199 Reaction ca_binding_to_cam_RT_BC_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BC_0 on site A

Reaction equation



Reactants

Table 600: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BC_0	cam_RT_BC_0	

Modifiers

Table 601: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BC_0	cam_RT_BC_0	
cam_RT_ABC_0	cam_RT_ABC_0	

Product

Table 602: Properties of each product.

Id	Name	SBO
cam_RT_ABC_0	cam_RT_ABC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{199} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BC_0}] - \text{koff_AR} \cdot [\text{cam_RT_ABC_0}]) \quad (451)$$

7.200 Reaction ca_binding_to_cam_RT_AC_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AC_0 on site B

Reaction equation



Reactants

Table 603: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AC_0	cam_RT_AC_0	

Modifiers

Table 604: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AC_0	cam_RT_AC_0	
cam_RT_ABC_0	cam_RT_ABC_0	

Product

Table 605: Properties of each product.

Id	Name	SBO
cam_RT_ABC_0	cam_RT_ABC_0	

Kinetic Law

Derived unit contains undeclared units

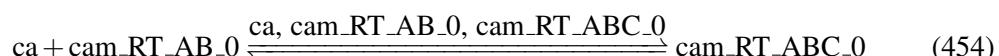
$$v_{200} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_AC_0}] - \text{koff_BR} \cdot [\text{cam_RT_ABC_0}]) \quad (453)$$

7.201 Reaction ca_binding_to_cam_RT_AB_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AB_0 on site C

Reaction equation



Reactants

Table 606: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AB_0	cam_RT_AB_0	

Modifiers

Table 607: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AB_0	cam_RT_AB_0	
cam_RT_ABC_0	cam_RT_ABC_0	

Product

Table 608: Properties of each product.

Id	Name	SBO
cam_RT_ABC_0	cam_RT_ABC_0	

Kinetic Law

Derived unit contains undeclared units

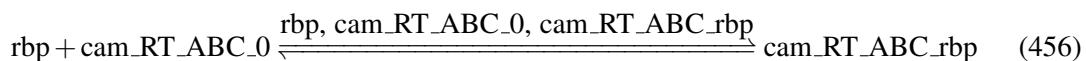
$$v_{201} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_AB_0}] - \text{koff_CT} \cdot [\text{cam_RT_ABC_0}]) \quad (455)$$

7.202 Reaction rbp_binding_to_cam_RT_ABC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_ABC_0

Reaction equation



Reactants

Table 609: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_RT_ABC_0	cam_RT_ABC_0	

Modifiers

Table 610: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_ABC_0	cam_RT_ABC_0	
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Product

Table 611: Properties of each product.

Id	Name	SBO
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

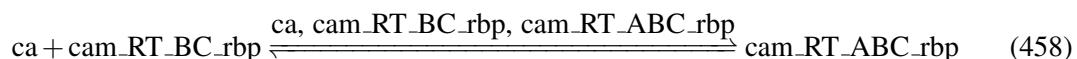
$$v_{202} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_ABC_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_ABC_rbp}]) \quad (457)$$

7.203 Reaction ca_binding_to_cam_RT_BC_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BC_rbp on site A

Reaction equation



Reactants

Table 612: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BC_rbp	cam_RT_BC_rbp	

Modifiers

Table 613: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BC_rbp	cam_RT_BC_rbp	
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Product

Table 614: Properties of each product.

Id	Name	SBO
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

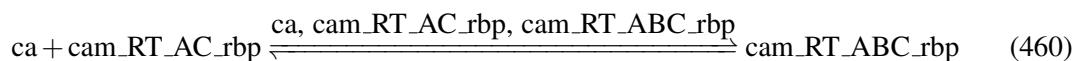
$$v_{203} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BC_rbp}] - \text{koff_AR} \cdot [\text{cam_RT_ABC_rbp}]) \quad (459)$$

7.204 Reaction ca_binding_to_cam_RT_AC_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AC_rbp on site B

Reaction equation



Reactants

Table 615: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AC_rbp	cam_RT_AC_rbp	

Modifiers

Table 616: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AC_rbp	cam_RT_AC_rbp	
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Product

Table 617: Properties of each product.

Id	Name	SBO
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

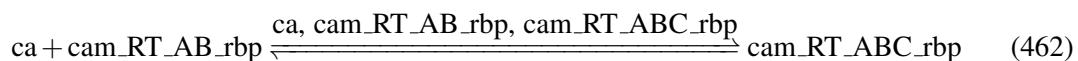
$$v_{204} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_AC_rbp}] - \text{koff_BR} \cdot [\text{cam_RT_ABC_rbp}]) \quad (461)$$

7.205 Reaction ca_binding_to_cam_RT_AB_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AB_rbp on site C

Reaction equation



Reactants

Table 618: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AB_rbp	cam_RT_AB_rbp	

Modifiers

Table 619: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AB_rbp	cam_RT_AB_rbp	
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Product

Table 620: Properties of each product.

Id	Name	SBO
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

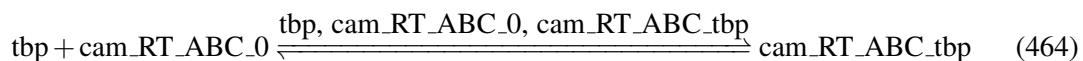
$$v_{205} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_AB_rbp}] - \text{koff_CT} \cdot [\text{cam_RT_ABC_rbp}]) \quad (463)$$

7.206 Reaction tbp_binding_to_cam_RT_ABC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_ABC_0

Reaction equation



Reactants

Table 621: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_ABC_0	cam_RT_ABC_0	

Modifiers

Table 622: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_ABC_0	cam_RT_ABC_0	
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Product

Table 623: Properties of each product.

Id	Name	SBO
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

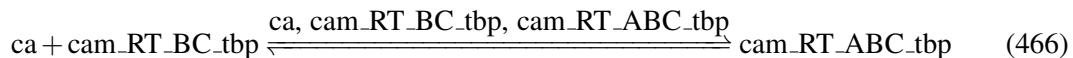
$$v_{206} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_ABC_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_ABC_tbp}]) \quad (465)$$

7.207 Reaction ca_binding_to_cam_RT_BC_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BC_tbp on site A

Reaction equation



Reactants

Table 624: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BC_tbp	cam_RT_BC_tbp	

Modifiers

Table 625: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BC_tbp	cam_RT_BC_tbp	
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Product

Table 626: Properties of each product.

Id	Name	SBO
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

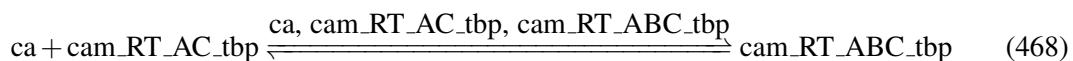
$$v_{207} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BC_tbp}] - \text{koff_AR} \cdot [\text{cam_RT_ABC_tbp}]) \quad (467)$$

7.208 Reaction ca_binding_to_cam_RT_AC_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AC_tbp on site B

Reaction equation



Reactants

Table 627: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AC_tbp	cam_RT_AC_tbp	

Modifiers

Table 628: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AC_tbp	cam_RT_AC_tbp	
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Product

Table 629: Properties of each product.

Id	Name	SBO
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

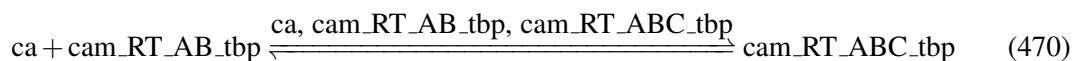
$$v_{208} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_AC_tbp}] - \text{koff_BR} \cdot [\text{cam_RT_ABC_tbp}]) \quad (469)$$

7.209 Reaction ca_binding_to_cam_RT_AB_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AB_tbp on site C

Reaction equation



Reactants

Table 630: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AB_tbp	cam_RT_AB_tbp	

Modifiers

Table 631: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AB_tbp	cam_RT_AB_tbp	
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Product

Table 632: Properties of each product.

Id	Name	SBO
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

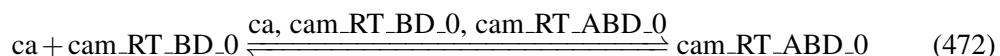
$$v_{209} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_AB_tbp}] - \text{koff_CT} \cdot [\text{cam_RT_ABC_tbp}]) \quad (471)$$

7.210 Reaction ca_binding_to_cam_RT_BD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BD_0 on site A

Reaction equation



Reactants

Table 633: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BD_0	cam_RT_BD_0	

Modifiers

Table 634: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BD_0	cam_RT_BD_0	
cam_RT_ABD_0	cam_RT_ABD_0	

Product

Table 635: Properties of each product.

Id	Name	SBO
cam_RT_ABD_0	cam_RT_ABD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{210} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BD_0}] - \text{koff_AR} \cdot [\text{cam_RT_ABD_0}]) \quad (473)$$

7.211 Reaction ca_binding_to_cam_RT_AD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AD_0 on site B

Reaction equation



Reactants

Table 636: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AD_0	cam_RT_AD_0	

Modifiers

Table 637: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AD_0	cam_RT_AD_0	
cam_RT_ABD_0	cam_RT_ABD_0	

Product

Table 638: Properties of each product.

Id	Name	SBO
cam_RT_ABD_0	cam_RT_ABD_0	

Kinetic Law

Derived unit contains undeclared units

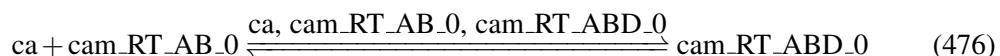
$$v_{211} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_AD_0}] - \text{koff_BR} \cdot [\text{cam_RT_ABD_0}]) \quad (475)$$

7.212 Reaction ca_binding_to_cam_RT_AB_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AB_0 on site D

Reaction equation



Reactants

Table 639: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AB_0	cam_RT_AB_0	

Modifiers

Table 640: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AB_0	cam_RT_AB_0	
cam_RT_ABD_0	cam_RT_ABD_0	

Product

Table 641: Properties of each product.

Id	Name	SBO
cam_RT_ABD_0	cam_RT_ABD_0	

Kinetic Law

Derived unit contains undeclared units

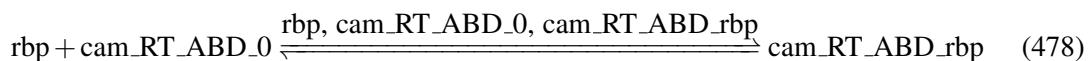
$$v_{212} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_AB_0}] - \text{koff_DT} \cdot [\text{cam_RT_ABD_0}]) \quad (477)$$

7.213 Reaction rbp_binding_to_cam_RT_ABD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_ABD_0

Reaction equation



Reactants

Table 642: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_RT_ABD_0	cam_RT_ABD_0	

Modifiers

Table 643: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_ABD_0	cam_RT_ABD_0	
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Product

Table 644: Properties of each product.

Id	Name	SBO
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

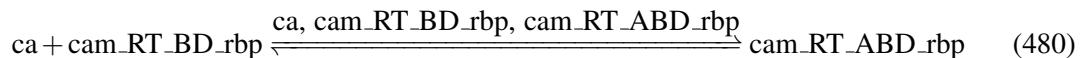
$$v_{213} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_ABD_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_ABD_rbp}]) \quad (479)$$

7.214 Reaction ca_binding_to_cam_RT_BD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BD_rbp on site A

Reaction equation



Reactants

Table 645: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BD_rbp	cam_RT_BD_rbp	

Modifiers

Table 646: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BD_rbp	cam_RT_BD_rbp	
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Product

Table 647: Properties of each product.

Id	Name	SBO
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

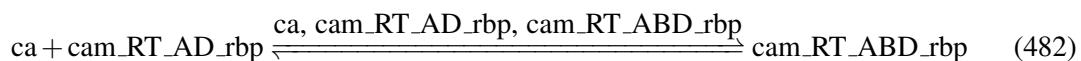
$$v_{214} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BD_rbp}] - \text{koff_AR} \cdot [\text{cam_RT_ABD_rbp}]) \quad (481)$$

7.215 Reaction ca_binding_to_cam_RT_AD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AD_rbp on site B

Reaction equation



Reactants

Table 648: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AD_rbp	cam_RT_AD_rbp	

Modifiers

Table 649: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AD_rbp	cam_RT_AD_rbp	
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Product

Table 650: Properties of each product.

Id	Name	SBO
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

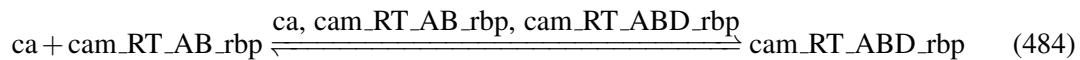
$$v_{215} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_AD_rbp}] - \text{koff_BR} \cdot [\text{cam_RT_ABD_rbp}]) \quad (483)$$

7.216 Reaction ca_binding_to_cam_RT_AB_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AB_rbp on site D

Reaction equation



Reactants

Table 651: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AB_rbp	cam_RT_AB_rbp	

Modifiers

Table 652: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AB_rbp	cam_RT_AB_rbp	
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Product

Table 653: Properties of each product.

Id	Name	SBO
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

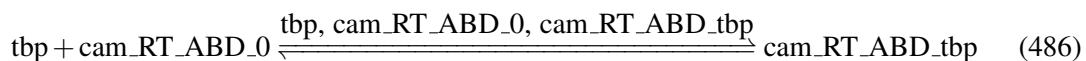
$$v_{216} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_AB_rbp}] - \text{koff_DT} \cdot [\text{cam_RT_ABD_rbp}]) \quad (485)$$

7.217 Reaction tbp_binding_to_cam_RT_ABD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_ABD_0

Reaction equation



Reactants

Table 654: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_ABD_0	cam_RT_ABD_0	

Modifiers

Table 655: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_ABD_0	cam_RT_ABD_0	
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Product

Table 656: Properties of each product.

Id	Name	SBO
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

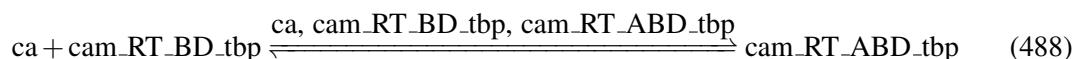
$$v_{217} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_ABD_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_ABD_tbp}]) \quad (487)$$

7.218 Reaction ca_binding_to_cam_RT_BD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BD_tbp on site A

Reaction equation



Reactants

Table 657: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BD_tbp	cam_RT_BD_tbp	

Modifiers

Table 658: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BD_tbp	cam_RT_BD_tbp	
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Product

Table 659: Properties of each product.

Id	Name	SBO
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

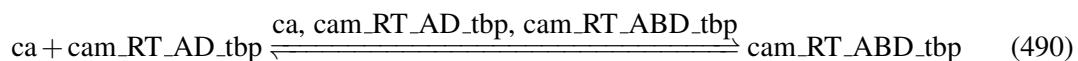
$$v_{218} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BD_tbp}] - \text{koff_AR} \cdot [\text{cam_RT_ABD_tbp}]) \quad (489)$$

7.219 Reaction ca_binding_to_cam_RT_AD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AD_tbp on site B

Reaction equation



Reactants

Table 660: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AD_tbp	cam_RT_AD_tbp	

Modifiers

Table 661: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AD_tbp	cam_RT_AD_tbp	
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Product

Table 662: Properties of each product.

Id	Name	SBO
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

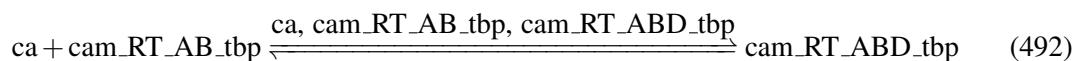
$$v_{219} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_AD_tbp}] - \text{koff_BR} \cdot [\text{cam_RT_ABD_tbp}]) \quad (491)$$

7.220 Reaction ca_binding_to_cam_RT_AB_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AB_tbp on site D

Reaction equation



Reactants

Table 663: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AB_tbp	cam_RT_AB_tbp	

Modifiers

Table 664: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AB_tbp	cam_RT_AB_tbp	
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Product

Table 665: Properties of each product.

Id	Name	SBO
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

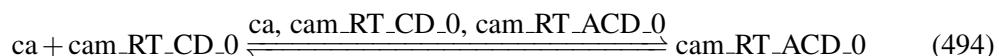
$$v_{220} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_AB_tbp}] - \text{koff_DT} \cdot [\text{cam_RT_ABD_tbp}]) \quad (493)$$

7.221 Reaction ca_binding_to_cam_RT_CD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_CD_0 on site A

Reaction equation



Reactants

Table 666: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_CD_0	cam_RT_CD_0	

Modifiers

Table 667: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_CD_0	cam_RT_CD_0	
cam_RT_ACD_0	cam_RT_ACD_0	

Product

Table 668: Properties of each product.

Id	Name	SBO
cam_RT_ACD_0	cam_RT_ACD_0	

Kinetic Law

Derived unit contains undeclared units

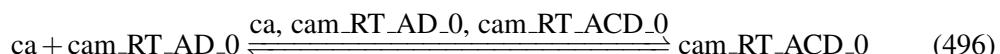
$$v_{221} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_CD_0}] - \text{koff_AR} \cdot [\text{cam_RT_ACD_0}]) \quad (495)$$

7.222 Reaction ca_binding_to_cam_RT_AD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AD_0 on site C

Reaction equation



Reactants

Table 669: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AD_0	cam_RT_AD_0	

Modifiers

Table 670: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AD_0	cam_RT_AD_0	
cam_RT_ACD_0	cam_RT_ACD_0	

Product

Table 671: Properties of each product.

Id	Name	SBO
cam_RT_ACD_0	cam_RT_ACD_0	

Kinetic Law

Derived unit contains undeclared units

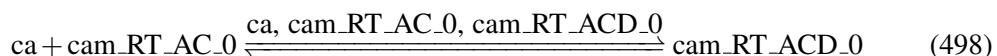
$$v_{222} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_AD_0}] - \text{koff_CT} \cdot [\text{cam_RT_ACD_0}]) \quad (497)$$

7.223 Reaction ca_binding_to_cam_RT_AC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AC_0 on site D

Reaction equation



Reactants

Table 672: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AC_0	cam_RT_AC_0	

Modifiers

Table 673: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AC_0	cam_RT_AC_0	
cam_RT_ACD_0	cam_RT_ACD_0	

Product

Table 674: Properties of each product.

Id	Name	SBO
cam_RT_ACD_0	cam_RT_ACD_0	

Kinetic Law

Derived unit contains undeclared units

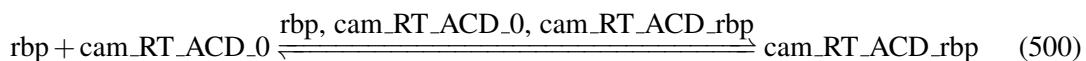
$$v_{223} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_AC_0}] - \text{koff_DT} \cdot [\text{cam_RT_ACD_0}]) \quad (499)$$

7.224 Reaction rbp_binding_to_cam_RT_ACD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_ACD_0

Reaction equation



Reactants

Table 675: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_RT_ACD_0	cam_RT_ACD_0	

Modifiers

Table 676: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_ACD_0	cam_RT_ACD_0	
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Product

Table 677: Properties of each product.

Id	Name	SBO
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

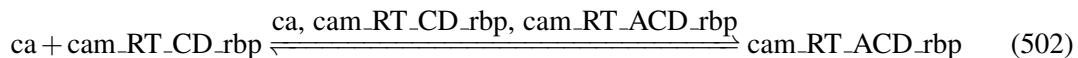
$$v_{224} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_ACD_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_ACD_rbp}]) \quad (501)$$

7.225 Reaction ca_binding_to_cam_RT_CD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_CD_rbp on site A

Reaction equation



Reactants

Table 678: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_CD_rbp	cam_RT_CD_rbp	

Modifiers

Table 679: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_CD_rbp	cam_RT_CD_rbp	
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Product

Table 680: Properties of each product.

Id	Name	SBO
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

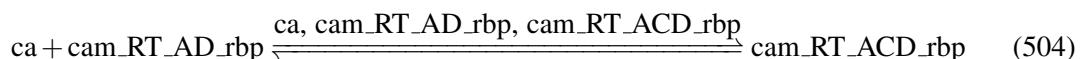
$$v_{225} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_CD_rbp}] - \text{koff_AR} \cdot [\text{cam_RT_ACD_rbp}]) \quad (503)$$

7.226 Reaction ca_binding_to_cam_RT_AD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AD_rbp on site C

Reaction equation



Reactants

Table 681: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AD_rbp	cam_RT_AD_rbp	

Modifiers

Table 682: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AD_rbp	cam_RT_AD_rbp	
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Product

Table 683: Properties of each product.

Id	Name	SBO
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

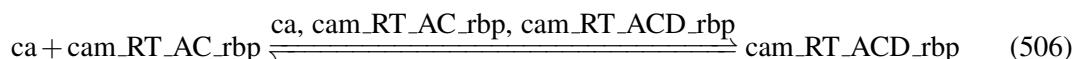
$$v_{226} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_AD_rbp}] - \text{koff_CT} \cdot [\text{cam_RT_ACD_rbp}]) \quad (505)$$

7.227 Reaction ca_binding_to_cam_RT_AC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AC_rbp on site D

Reaction equation



Reactants

Table 684: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AC_rbp	cam_RT_AC_rbp	

Modifiers

Table 685: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AC_rbp	cam_RT_AC_rbp	
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Product

Table 686: Properties of each product.

Id	Name	SBO
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

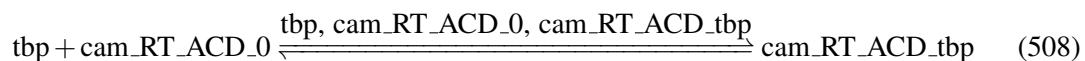
$$v_{227} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_AC_rbp}] - \text{koff_DT} \cdot [\text{cam_RT_ACD_rbp}]) \quad (507)$$

7.228 Reaction tbp_binding_to_cam_RT_ACD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_ACD_0

Reaction equation



Reactants

Table 687: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_ACD_0	cam_RT_ACD_0	

Modifiers

Table 688: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_ACD_0	cam_RT_ACD_0	
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Product

Table 689: Properties of each product.

Id	Name	SBO
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

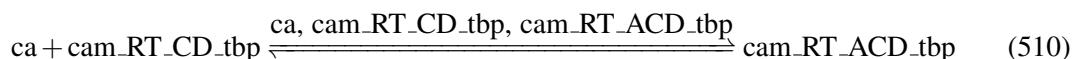
$$v_{228} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_ACD_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_ACD_tbp}]) \quad (509)$$

7.229 Reaction ca_binding_to_cam_RT_CD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_CD_tbp on site A

Reaction equation



Reactants

Table 690: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_CD_tbp	cam_RT_CD_tbp	

Modifiers

Table 691: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_CD_tbp	cam_RT_CD_tbp	
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Product

Table 692: Properties of each product.

Id	Name	SBO
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

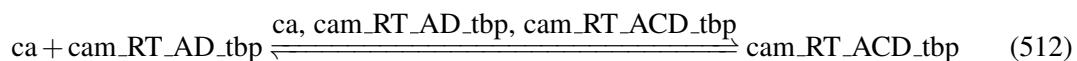
$$v_{229} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_CD_tbp}] - \text{koff_AR} \cdot [\text{cam_RT_ACD_tbp}]) \quad (511)$$

7.230 Reaction ca_binding_to_cam_RT_AD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AD_tbp on site C

Reaction equation



Reactants

Table 693: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AD_tbp	cam_RT_AD_tbp	

Modifiers

Table 694: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AD_tbp	cam_RT_AD_tbp	
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Product

Table 695: Properties of each product.

Id	Name	SBO
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

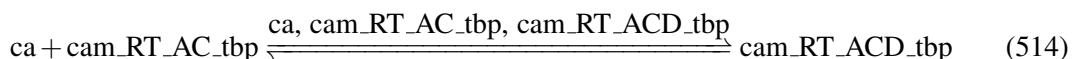
$$v_{230} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_AD_tbp}] - \text{koff_CT} \cdot [\text{cam_RT_ACD_tbp}]) \quad (513)$$

7.231 Reaction ca_binding_to_cam_RT_AC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_AC_tbp on site D

Reaction equation



Reactants

Table 696: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_AC_tbp	cam_RT_AC_tbp	

Modifiers

Table 697: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_AC_tbp	cam_RT_AC_tbp	
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Product

Table 698: Properties of each product.

Id	Name	SBO
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

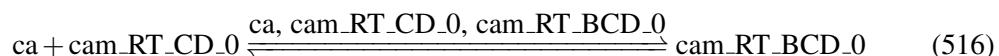
$$v_{231} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_AC_tbp}] - \text{koff_DT} \cdot [\text{cam_RT_ACD_tbp}]) \quad (515)$$

7.232 Reaction ca_binding_to_cam_RT_CD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_CD_0 on site B

Reaction equation



Reactants

Table 699: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_CD_0	cam_RT_CD_0	

Modifiers

Table 700: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_CD_0	cam_RT_CD_0	
cam_RT_BCD_0	cam_RT_BCD_0	

Product

Table 701: Properties of each product.

Id	Name	SBO
cam_RT_BCD_0	cam_RT_BCD_0	

Kinetic Law

Derived unit contains undeclared units

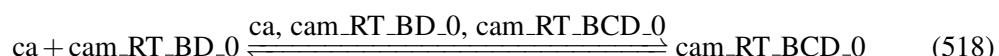
$$v_{232} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_CD_0}] - \text{koff_BR} \cdot [\text{cam_RT_BCD_0}]) \quad (517)$$

7.233 Reaction ca_binding_to_cam_RT_BD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BD_0 on site C

Reaction equation



Reactants

Table 702: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BD_0	cam_RT_BD_0	

Modifiers

Table 703: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BD_0	cam_RT_BD_0	
cam_RT_BCD_0	cam_RT_BCD_0	

Product

Table 704: Properties of each product.

Id	Name	SBO
cam_RT_BCD_0	cam_RT_BCD_0	

Kinetic Law

Derived unit contains undeclared units

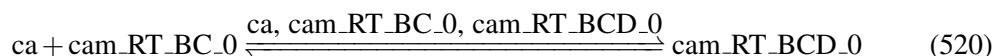
$$v_{233} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_BD_0}] - \text{koff_CT} \cdot [\text{cam_RT_BCD_0}]) \quad (519)$$

7.234 Reaction ca_binding_to_cam_RT_BC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BC_0 on site D

Reaction equation



Reactants

Table 705: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BC_0	cam_RT_BC_0	

Modifiers

Table 706: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BC_0	cam_RT_BC_0	
cam_RT_BCD_0	cam_RT_BCD_0	

Product

Table 707: Properties of each product.

Id	Name	SBO
cam_RT_BCD_0	cam_RT_BCD_0	

Kinetic Law

Derived unit contains undeclared units

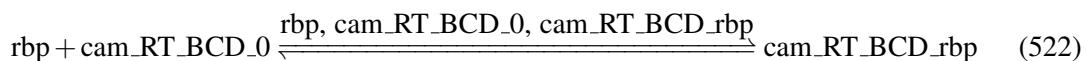
$$v_{234} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_BC_0}] - \text{koff_DT} \cdot [\text{cam_RT_BCD_0}]) \quad (521)$$

7.235 Reaction rbp_binding_to_cam_RT_BCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_BCD_0

Reaction equation



Reactants

Table 708: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_RT_BCD_0	cam_RT_BCD_0	

Modifiers

Table 709: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_RT_BCD_0	cam_RT_BCD_0	
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Product

Table 710: Properties of each product.

Id	Name	SBO
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

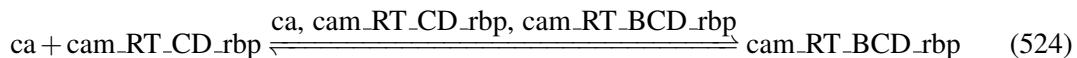
$$v_{235} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_BCD_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_BCD_rbp}]) \quad (523)$$

7.236 Reaction ca_binding_to_cam_RT_CD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_CD_rbp on site B

Reaction equation



Reactants

Table 711: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_CD_rbp	cam_RT_CD_rbp	

Modifiers

Table 712: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_CD_rbp	cam_RT_CD_rbp	
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Product

Table 713: Properties of each product.

Id	Name	SBO
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

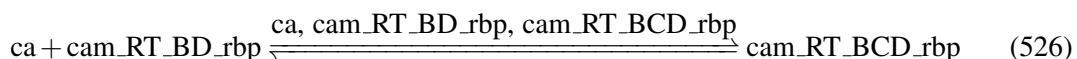
$$v_{236} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_CD_rbp}] - \text{koff_BR} \cdot [\text{cam_RT_BCD_rbp}]) \quad (525)$$

7.237 Reaction ca_binding_to_cam_RT_BD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BD_rbp on site C

Reaction equation



Reactants

Table 714: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BD_rbp	cam_RT_BD_rbp	

Modifiers

Table 715: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BD_rbp	cam_RT_BD_rbp	
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Product

Table 716: Properties of each product.

Id	Name	SBO
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

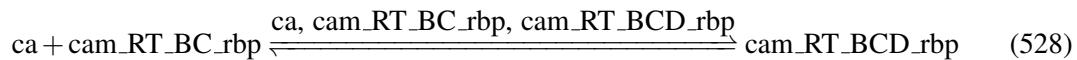
$$v_{237} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_BD_rbp}] - \text{koff_CT} \cdot [\text{cam_RT_BCD_rbp}]) \quad (527)$$

7.238 Reaction ca_binding_to_cam_RT_BC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BC_rbp on site D

Reaction equation



Reactants

Table 717: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BC_rbp	cam_RT_BC_rbp	

Modifiers

Table 718: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BC_rbp	cam_RT_BC_rbp	
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Product

Table 719: Properties of each product.

Id	Name	SBO
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

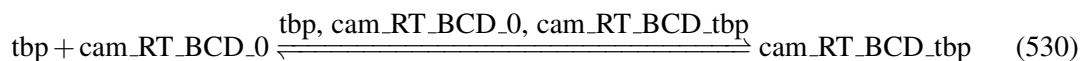
$$v_{238} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_BC_rbp}] - \text{koff_DT} \cdot [\text{cam_RT_BCD_rbp}]) \quad (529)$$

7.239 Reaction tbp_binding_to_cam_RT_BCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_BCD_0

Reaction equation



Reactants

Table 720: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_BCD_0	cam_RT_BCD_0	

Modifiers

Table 721: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_BCD_0	cam_RT_BCD_0	
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Product

Table 722: Properties of each product.

Id	Name	SBO
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

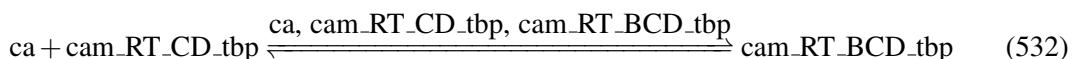
$$v_{239} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_BCD_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_BCD_tbp}]) \quad (531)$$

7.240 Reaction ca_binding_to_cam_RT_CD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_CD_tbp on site B

Reaction equation



Reactants

Table 723: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_CD_tbp	cam_RT_CD_tbp	

Modifiers

Table 724: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_CD_tbp	cam_RT_CD_tbp	
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Product

Table 725: Properties of each product.

Id	Name	SBO
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

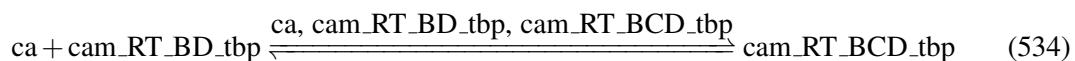
$$v_{240} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_CD_tbp}] - \text{koff_BR} \cdot [\text{cam_RT_BCD_tbp}]) \quad (533)$$

7.241 Reaction ca_binding_to_cam_RT_BD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BD_tbp on site C

Reaction equation



Reactants

Table 726: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BD_tbp	cam_RT_BD_tbp	

Modifiers

Table 727: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BD_tbp	cam_RT_BD_tbp	
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Product

Table 728: Properties of each product.

Id	Name	SBO
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

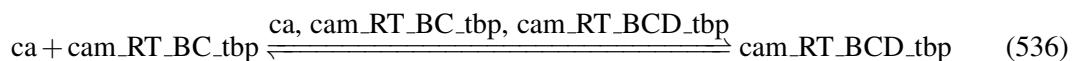
$$v_{241} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_BD_tbp}] - \text{koff_CT} \cdot [\text{cam_RT_BCD_tbp}]) \quad (535)$$

7.242 Reaction ca_binding_to_cam_RT_BC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BC_tbp on site D

Reaction equation



Reactants

Table 729: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BC_tbp	cam_RT_BC_tbp	

Modifiers

Table 730: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BC_tbp	cam_RT_BC_tbp	
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Product

Table 731: Properties of each product.

Id	Name	SBO
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

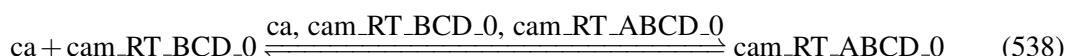
$$v_{242} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_BC_tbp}] - \text{koff_DT} \cdot [\text{cam_RT_BCD_tbp}]) \quad (537)$$

7.243 Reaction ca_binding_to_cam_RT_BCD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BCD_0 on site A

Reaction equation



Reactants

Table 732: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BCD_0	cam_RT_BCD_0	

Modifiers

Table 733: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BCD_0	cam_RT_BCD_0	
cam_RT_ABCD_0	cam_RT_ABCD_0	

Product

Table 734: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_0	cam_RT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

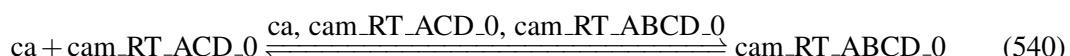
$$v_{243} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BCD_0}] - \text{koff_AR} \cdot [\text{cam_RT_ABCD_0}]) \quad (539)$$

7.244 Reaction ca_binding_to_cam_RT_ACD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ACD_0 on site B

Reaction equation



Reactants

Table 735: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ACD_0	cam_RT_ACD_0	

Modifiers

Table 736: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ACD_0	cam_RT_ACD_0	
cam_RT_ABCD_0	cam_RT_ABCD_0	

Product

Table 737: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_0	cam_RT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

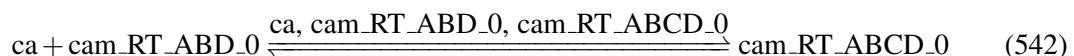
$$v_{244} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_ACD_0}] - \text{koff_BR} \cdot [\text{cam_RT_ABCD_0}]) \quad (541)$$

7.245 Reaction ca_binding_to_cam_RT_ABD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ABD_0 on site C

Reaction equation



Reactants

Table 738: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ABD_0	cam_RT_ABD_0	

Modifiers

Table 739: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ABD_0	cam_RT_ABD_0	
cam_RT_ABCD_0	cam_RT_ABCD_0	

Product

Table 740: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_0	cam_RT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

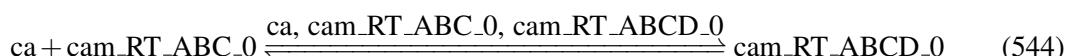
$$v_{245} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_ABD_0}] - \text{koff_CT} \cdot [\text{cam_RT_ABCD_0}]) \quad (543)$$

7.246 Reaction ca_binding_to_cam_RT_ABC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ABC_0 on site D

Reaction equation



Reactants

Table 741: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ABC_0	cam_RT_ABC_0	

Modifiers

Table 742: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ABC_0	cam_RT_ABC_0	
cam_RT_ABCD_0	cam_RT_ABCD_0	

Product

Table 743: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_0	cam_RT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

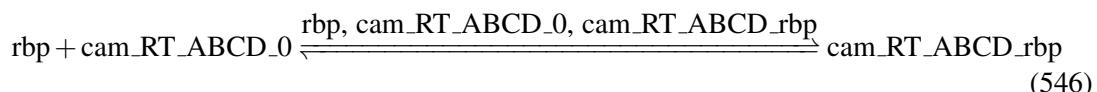
$$v_{246} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_ABC_0}] - \text{koff_DT} \cdot [\text{cam_RT_ABCD_0}]) \quad (545)$$

7.247 Reaction rbp_binding_to_cam_RT_ABCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_RT_ABCD_0

Reaction equation



Reactants

Table 744: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_RT_ABCD_0	cam_RT_ABCD_0	

Modifiers

Table 745: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_RT_ABCD_0	cam_RT_ABCD_0	
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Product

Table 746: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

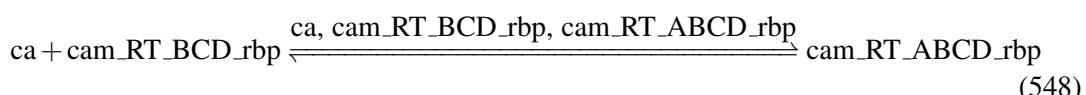
$$v_{247} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_RT_ABCD_0}] - \text{koff_rbp_RT} \cdot [\text{cam_RT_ABCD_rbp}]) \quad (547)$$

7.248 Reaction ca_binding_to_cam_RT_BCD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BCD_rbp on site A

Reaction equation



Reactants

Table 747: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BCD_rbp	cam_RT_BCD_rbp	

Modifiers

Table 748: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BCD_rbp	cam_RT_BCD_rbp	
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Product

Table 749: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

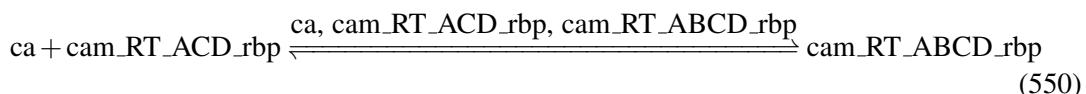
$$v_{248} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BCD_rbp}] - \text{koff_AR} \cdot [\text{cam_RT_ABCD_rbp}]) \quad (549)$$

7.249 Reaction ca_binding_to_cam_RT_ACD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ACD_rbp on site B

Reaction equation



Reactants

Table 750: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ACD_rbp	cam_RT_ACD_rbp	

Modifiers

Table 751: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ACD_rbp	cam_RT_ACD_rbp	
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Product

Table 752: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

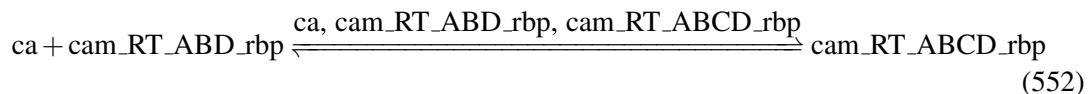
$$v_{249} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_ACD_rbp}] - \text{koff_BR} \cdot [\text{cam_RT_ABCD_rbp}]) \quad (551)$$

7.250 Reaction ca_binding_to_cam_RT_ABD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ABD_rbp on site C

Reaction equation



Reactants

Table 753: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ABD_rbp	cam_RT_ABD_rbp	

Modifiers

Table 754: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ABD_rbp	cam_RT_ABD_rbp	
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Product

Table 755: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

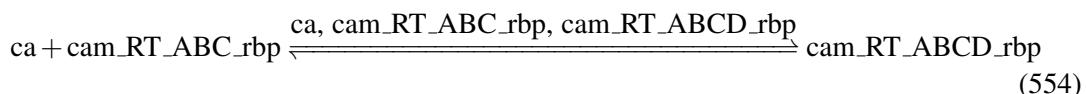
$$v_{250} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_ABD_rbp}] - \text{koff_CT} \cdot [\text{cam_RT_ABCD_rbp}]) \quad (553)$$

7.251 Reaction ca_binding_to_cam_RT_ABC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ABC_rbp on site D

Reaction equation



Reactants

Table 756: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ABC_rbp	cam_RT_ABC_rbp	

Modifiers

Table 757: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ABC_rbp	cam_RT_ABC_rbp	
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Product

Table 758: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_rbp	cam_RT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

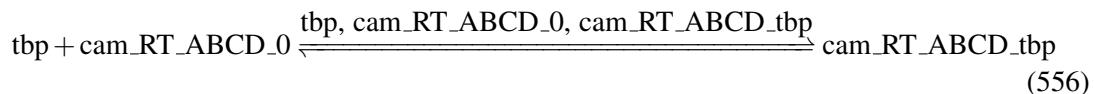
$$v_{251} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_ABC_rbp}] - \text{koff_DT} \cdot [\text{cam_RT_ABCD_rbp}]) \quad (555)$$

7.252 Reaction tbp_binding_to_cam_RT_ABCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_RT_ABCD_0

Reaction equation



Reactants

Table 759: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_RT_ABCD_0	cam_RT_ABCD_0	

Modifiers

Table 760: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_RT_ABCD_0	cam_RT_ABCD_0	
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Product

Table 761: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

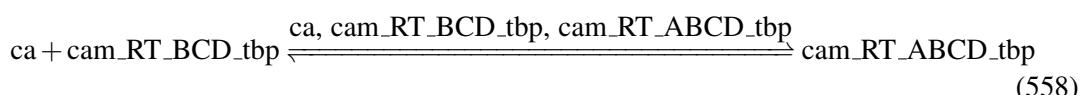
$$v_{252} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_RT_ABCD_0}] - \text{koff_tbp_RT} \cdot [\text{cam_RT_ABCD_tbp}]) \quad (557)$$

7.253 Reaction ca_binding_to_cam_RT_BCD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_BCD_tbp on site A

Reaction equation



Reactants

Table 762: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_BCD_tbp	cam_RT_BCD_tbp	

Modifiers

Table 763: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_BCD_tbp	cam_RT_BCD_tbp	
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Product

Table 764: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

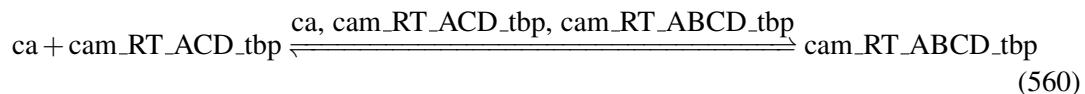
$$v_{253} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AR} \cdot [\text{ca}] \cdot [\text{cam_RT_BCD_tbp}] - \text{koff_AR} \cdot [\text{cam_RT_ABCD_tbp}]) \quad (559)$$

7.254 Reaction ca_binding_to_cam_RT_ACD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ACD_tbp on site B

Reaction equation



Reactants

Table 765: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ACD_tbp	cam_RT_ACD_tbp	

Modifiers

Table 766: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ACD_tbp	cam_RT_ACD_tbp	
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Product

Table 767: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

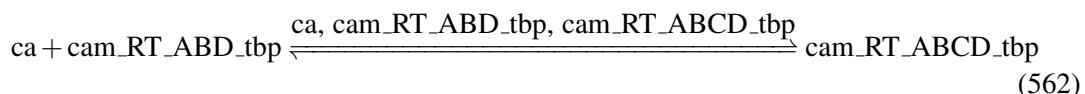
$$v_{254} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BR} \cdot [\text{ca}] \cdot [\text{cam_RT_ACD_tbp}] - \text{koff_BR} \cdot [\text{cam_RT_ABCD_tbp}]) \quad (561)$$

7.255 Reaction ca_binding_to_cam_RT_ABD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ABD_tbp on site C

Reaction equation



Reactants

Table 768: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ABD_tbp	cam_RT_ABD_tbp	

Modifiers

Table 769: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ABD_tbp	cam_RT_ABD_tbp	
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Product

Table 770: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

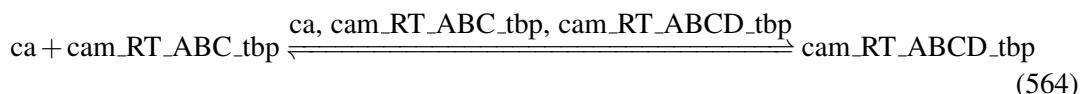
$$v_{255} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_RT_ABD_tbp}] - \text{koff_CT} \cdot [\text{cam_RT_ABCD_tbp}]) \quad (563)$$

7.256 Reaction ca_binding_to_cam_RT_ABC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_RT_ABC_tbp on site D

Reaction equation



Reactants

Table 771: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_RT_ABC_tbp	cam_RT_ABC_tbp	

Modifiers

Table 772: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_RT_ABC_tbp	cam_RT_ABC_tbp	
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Product

Table 773: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_tbp	cam_RT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{256} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_RT_ABC_tbp}] - \text{koff_DT} \cdot [\text{cam_RT_ABCD_tbp}]) \quad (565)$$

7.257 Reaction rbp_binding_to_cam_TR_0_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_0_0

Reaction equation



Reactants

Table 774: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_0_0	cam_TR_0_0	

Modifiers

Table 775: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TR_0_0	cam_TR_0_0	
cam_TR_0_rbp	cam_TR_0_rbp	

Product

Table 776: Properties of each product.

Id	Name	SBO
cam_TR_0_rbp	cam_TR_0_rbp	

Kinetic Law

Derived unit contains undeclared units

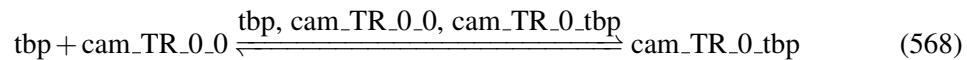
$$v_{257} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_0_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_0_rbp}]) \quad (567)$$

7.258 Reaction [tbp_binding_to_cam_TR_0_0](#)

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_0_0

Reaction equation



Reactants

Table 777: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_0_0	cam_TR_0_0	

Modifiers

Table 778: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_0_0	cam_TR_0_0	
cam_TR_0_tbp	cam_TR_0_tbp	

Product

Table 779: Properties of each product.

Id	Name	SBO
cam_TR_0_tbp	cam_TR_0_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{258} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_0_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_0_tbp}]) \quad (569)$$

7.259 Reaction ca_binding_to_cam_TR_0_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0_0 on site A

Reaction equation



Reactants

Table 780: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_0	cam_TR_0_0	

Modifiers

Table 781: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_0	cam_TR_0_0	
cam_TR_A_0	cam_TR_A_0	

Product

Table 782: Properties of each product.

Id	Name	SBO
cam_TR_A_0	cam_TR_A_0	

Kinetic Law

Derived unit contains undeclared units

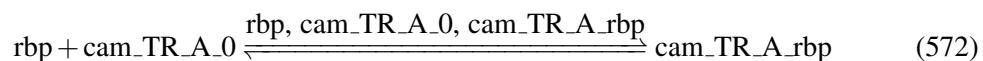
$$v_{259} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_0_0}] - \text{koff_AT} \cdot [\text{cam_TR_A_0}]) \quad (571)$$

7.260 Reaction rbp_binding_to_cam_TR_A_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_A_0

Reaction equation



Reactants

Table 783: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_A_0	cam_TR_A_0	

Modifiers

Table 784: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TR_A_0	cam_TR_A_0	
cam_TR_A_rbp	cam_TR_A_rbp	

Product

Table 785: Properties of each product.

Id	Name	SBO
cam_TR_A_rbp	cam_TR_A_rbp	

Kinetic Law

Derived unit contains undeclared units

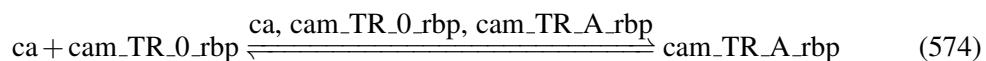
$$v_{260} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_A_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_A_rbp}]) \quad (573)$$

7.261 Reaction ca_binding_to_cam_TR_0_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0_rbp on site A

Reaction equation



Reactants

Table 786: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_rbp	cam_TR_0_rbp	

Modifiers

Table 787: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_rbp	cam_TR_0_rbp	
cam_TR_A_rbp	cam_TR_A_rbp	

Product

Table 788: Properties of each product.

Id	Name	SBO
cam_TR_A_rbp	cam_TR_A_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{261} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_0_rbp}] - \text{koff_AT} \cdot [\text{cam_TR_A_rbp}]) \quad (575)$$

7.262 Reaction tbp_binding_to_cam_TR_A_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_A_0

Reaction equation



Reactants

Table 789: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_A_0	cam_TR_A_0	

Modifiers

Table 790: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_A_0	cam_TR_A_0	
cam_TR_A_tbp	cam_TR_A_tbp	

Product

Table 791: Properties of each product.

Id	Name	SBO
cam_TR_A_tbp	cam_TR_A_tbp	

Kinetic Law

Derived unit contains undeclared units

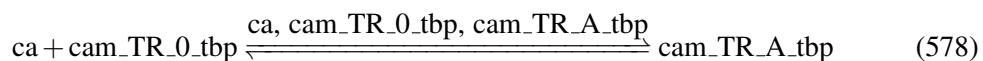
$$v_{262} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_A_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_A_tbp}]) \quad (577)$$

7.263 Reaction ca_binding_to_cam_TR_0_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0.tbp on site A

Reaction equation



Reactants

Table 792: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_tbp	cam_TR_0_tbp	

Modifiers

Table 793: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_tbp	cam_TR_0_tbp	
cam_TR_A_tbp	cam_TR_A_tbp	

Product

Table 794: Properties of each product.

Id	Name	SBO
cam_TR_A_tbp	cam_TR_A_tbp	

Kinetic Law

Derived unit contains undeclared units

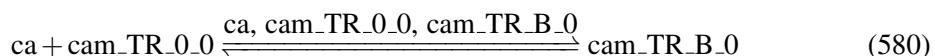
$$v_{263} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_0_tbp}] - \text{koff_AT} \cdot [\text{cam_TR_A_tbp}]) \quad (579)$$

7.264 Reaction ca_binding_to_cam_TR_0_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0_0 on site B

Reaction equation



Reactants

Table 795: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_0	cam_TR_0_0	

Modifiers

Table 796: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_0	cam_TR_0_0	
cam_TR_B_0	cam_TR_B_0	

Product

Table 797: Properties of each product.

Id	Name	SBO
cam_TR_B_0	cam_TR_B_0	

Kinetic Law

Derived unit contains undeclared units

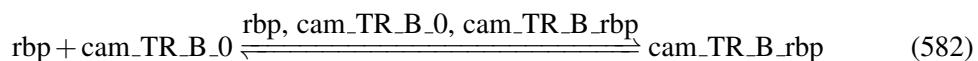
$$v_{264} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_0_0}] - \text{koff_BT} \cdot [\text{cam_TR_B_0}]) \quad (581)$$

7.265 Reaction rbp_binding_to_cam_TR_B_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_B_0

Reaction equation



Reactants

Table 798: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_B_0	cam_TR_B_0	

Modifiers

Table 799: Properties of each modifier.

Id	Name	SBO
rpb	rbp	
cam_TR_B_0	cam_TR_B_0	
cam_TR_B_rbp	cam_TR_B_rbp	

Product

Table 800: Properties of each product.

Id	Name	SBO
cam_TR_B_rbp	cam_TR_B_rbp	

Kinetic Law

Derived unit contains undeclared units

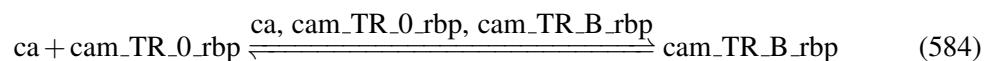
$$v_{265} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_B_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_B_rbp}]) \quad (583)$$

7.266 Reaction ca_binding_to_cam_TR_0_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0.rbp on site B

Reaction equation



Reactants

Table 801: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_rbp	cam_TR_0_rbp	

Modifiers

Table 802: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_rbp	cam_TR_0_rbp	
cam_TR_B_rbp	cam_TR_B_rbp	

Product

Table 803: Properties of each product.

Id	Name	SBO
cam_TR_B_rbp	cam_TR_B_rbp	

Kinetic Law

Derived unit contains undeclared units

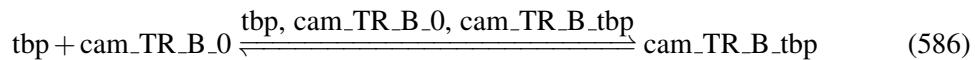
$$v_{266} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_0_rbp}] - \text{koff_BT} \cdot [\text{cam_TR_B_rbp}]) \quad (585)$$

7.267 Reaction tbp_binding_to_cam_TR_B_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_B_0

Reaction equation



Reactants

Table 804: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_B_0	cam_TR_B_0	

Modifiers

Table 805: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_B_0	cam_TR_B_0	
cam_TR_B_tbp	cam_TR_B_tbp	

Product

Table 806: Properties of each product.

Id	Name	SBO
cam_TR_B_tbp	cam_TR_B_tbp	

Kinetic Law

Derived unit contains undeclared units

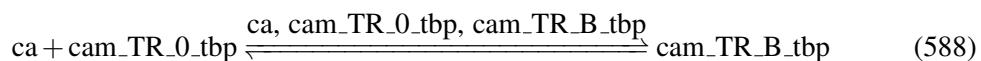
$$v_{267} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_B_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_B_tbp}]) \quad (587)$$

7.268 Reaction ca_binding_to_cam_TR_0_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.0.tbp on site B

Reaction equation



Reactants

Table 807: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_tbp	cam_TR_0_tbp	

Modifiers

Table 808: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_tbp	cam_TR_0_tbp	
cam_TR_B_tbp	cam_TR_B_tbp	

Product

Table 809: Properties of each product.

Id	Name	SBO
cam_TR_B_tbp	cam_TR_B_tbp	

Kinetic Law

Derived unit contains undeclared units

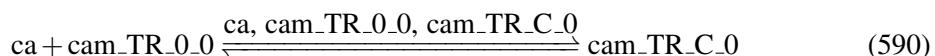
$$v_{268} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_0_tbp}] - \text{koff_BT} \cdot [\text{cam_TR_B_tbp}]) \quad (589)$$

7.269 Reaction ca_binding_to_cam_TR_0_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0_0 on site C

Reaction equation



Reactants

Table 810: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_0	cam_TR_0_0	

Modifiers

Table 811: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_0	cam_TR_0_0	
cam_TR_C_0	cam_TR_C_0	

Product

Table 812: Properties of each product.

Id	Name	SBO
cam_TR_C_0	cam_TR_C_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{269} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_0_0}] - \text{koff_CR} \cdot [\text{cam_TR_C_0}]) \quad (591)$$

7.270 Reaction rbp_binding_to_cam_TR_C_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_C_0

Reaction equation



Reactants

Table 813: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_C_0	cam_TR_C_0	

Modifiers

Table 814: Properties of each modifier.

Id	Name	SBO
rpb	rbp	
cam_TR_C_0	cam_TR_C_0	
cam_TR_C_rbp	cam_TR_C_rbp	

Product

Table 815: Properties of each product.

Id	Name	SBO
cam_TR_C_rbp	cam_TR_C_rbp	

Kinetic Law

Derived unit contains undeclared units

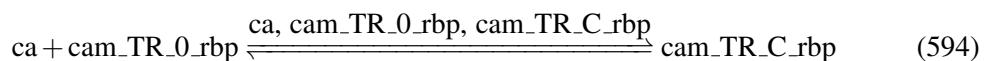
$$v_{270} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_C_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_C_rbp}]) \quad (593)$$

7.271 Reaction ca_binding_to_cam_TR_0_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0.rbp on site C

Reaction equation



Reactants

Table 816: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_rbp	cam_TR_0_rbp	

Modifiers

Table 817: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_rbp	cam_TR_0_rbp	
cam_TR_C_rbp	cam_TR_C_rbp	

Product

Table 818: Properties of each product.

Id	Name	SBO
cam_TR_C_rbp	cam_TR_C_rbp	

Kinetic Law

Derived unit contains undeclared units

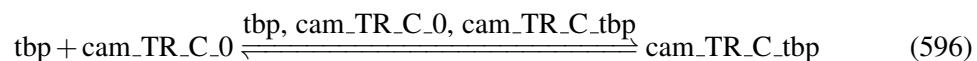
$$v_{271} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_0_rbp}] - \text{koff_CR} \cdot [\text{cam_TR_C_rbp}]) \quad (595)$$

7.272 Reaction tbp_binding_to_cam_TR_C_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_C_0

Reaction equation



Reactants

Table 819: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_C_0	cam_TR_C_0	

Modifiers

Table 820: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_C_0	cam_TR_C_0	
cam_TR_C_tbp	cam_TR_C_tbp	

Product

Table 821: Properties of each product.

Id	Name	SBO
cam_TR_C_tbp	cam_TR_C_tbp	

Kinetic Law

Derived unit contains undeclared units

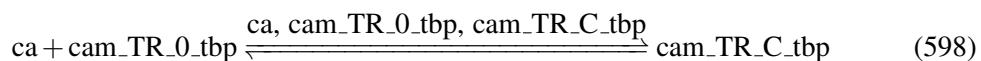
$$v_{272} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_C_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_C_tbp}]) \quad (597)$$

7.273 Reaction ca_binding_to_cam_TR_0_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.0.tbp on site C

Reaction equation



Reactants

Table 822: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_tbp	cam_TR_0_tbp	

Modifiers

Table 823: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_tbp	cam_TR_0_tbp	
cam_TR_C_tbp	cam_TR_C_tbp	

Product

Table 824: Properties of each product.

Id	Name	SBO
cam_TR_C_tbp	cam_TR_C_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{273} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_0_tbp}] - \text{koff_CR} \cdot [\text{cam_TR_C_tbp}]) \quad (599)$$

7.274 Reaction ca_binding_to_cam_TR_0_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0_0 on site D

Reaction equation



Reactants

Table 825: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_0	cam_TR_0_0	

Modifiers

Table 826: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_0	cam_TR_0_0	
cam_TR_D_0	cam_TR_D_0	

Product

Table 827: Properties of each product.

Id	Name	SBO
cam_TR_D_0	cam_TR_D_0	

Kinetic Law

Derived unit contains undeclared units

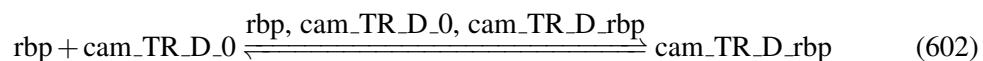
$$v_{274} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_0_0}] - \text{koff_DR} \cdot [\text{cam_TR_D_0}]) \quad (601)$$

7.275 Reaction rbp_binding_to_cam_TR_D_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_D_0

Reaction equation



Reactants

Table 828: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_D_0	cam_TR_D_0	

Modifiers

Table 829: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TR_D_0	cam_TR_D_0	
cam_TR_D_rbp	cam_TR_D_rbp	

Product

Table 830: Properties of each product.

Id	Name	SBO
cam_TR_D_rbp	cam_TR_D_rbp	

Kinetic Law

Derived unit contains undeclared units

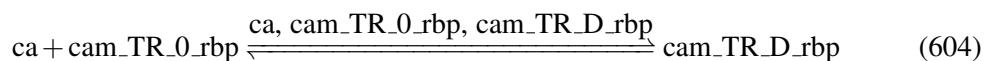
$$v_{275} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_D_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_D_rbp}]) \quad (603)$$

7.276 Reaction ca_binding_to_cam_TR_0_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_0.rbp on site D

Reaction equation



Reactants

Table 831: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_rbp	cam_TR_0_rbp	

Modifiers

Table 832: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_rbp	cam_TR_0_rbp	
cam_TR_D_rbp	cam_TR_D_rbp	

Product

Table 833: Properties of each product.

Id	Name	SBO
cam_TR_D_rbp	cam_TR_D_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{276} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_0_rbp}] - \text{koff_DR} \cdot [\text{cam_TR_D_rbp}]) \quad (605)$$

7.277 Reaction tbp_binding_to_cam_TR_D_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_D_0

Reaction equation



Reactants

Table 834: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_D_0	cam_TR_D_0	

Modifiers

Table 835: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_D_0	cam_TR_D_0	
cam_TR_D_tbp	cam_TR_D_tbp	

Product

Table 836: Properties of each product.

Id	Name	SBO
cam_TR_D_tbp	cam_TR_D_tbp	

Kinetic Law

Derived unit contains undeclared units

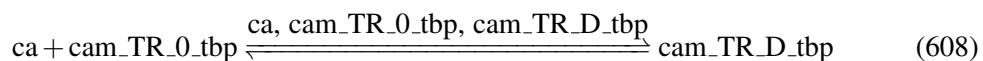
$$v_{277} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_D_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_D_tbp}]) \quad (607)$$

7.278 Reaction ca_binding_to_cam_TR_0_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.0.tbp on site D

Reaction equation



Reactants

Table 837: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_0_tbp	cam_TR_0_tbp	

Modifiers

Table 838: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_0_tbp	cam_TR_0_tbp	
cam_TR_D_tbp	cam_TR_D_tbp	

Product

Table 839: Properties of each product.

Id	Name	SBO
cam_TR_D_tbp	cam_TR_D_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{278} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_0_tbp}] - \text{koff_DR} \cdot [\text{cam_TR_D_tbp}]) \quad (609)$$

7.279 Reaction ca_binding_to_cam_TR_B_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B_0 on site A

Reaction equation



Reactants

Table 840: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_0	cam_TR_B_0	

Modifiers

Table 841: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_0	cam_TR_B_0	
cam_TR_AB_0	cam_TR_AB_0	

Product

Table 842: Properties of each product.

Id	Name	SBO
cam_TR_AB_0	cam_TR_AB_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{279} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_B_0}] - \text{koff_AT} \cdot [\text{cam_TR_AB_0}]) \quad (611)$$

7.280 Reaction ca_binding_to_cam_TR_A_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A_0 on site B

Reaction equation



Reactants

Table 843: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_0	cam_TR_A_0	

Modifiers

Table 844: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_0	cam_TR_A_0	
cam_TR_AB_0	cam_TR_AB_0	

Product

Table 845: Properties of each product.

Id	Name	SBO
cam_TR_AB_0	cam_TR_AB_0	

Kinetic Law

Derived unit contains undeclared units

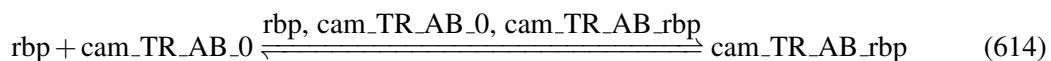
$$v_{280} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_A_0}] - \text{koff_BT} \cdot [\text{cam_TR_AB_0}]) \quad (613)$$

7.281 Reaction rbp_binding_to_cam_TR_AB_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_AB_0

Reaction equation



Reactants

Table 846: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_TR_AB_0	cam_TR_AB_0	

Modifiers

Table 847: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TR_AB_0	cam_TR_AB_0	
cam_TR_AB_rbp	cam_TR_AB_rbp	

Product

Table 848: Properties of each product.

Id	Name	SBO
cam_TR_AB_rbp	cam_TR_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{281} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_TR_AB_0}] - \text{koff_rpb_TR} \cdot [\text{cam_TR_AB_rbp}]) \quad (615)$$

7.282 Reaction ca_binding_to_cam_TR_B_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B.rbp on site A

Reaction equation



Reactants

Table 849: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_rbp	cam_TR_B_rbp	

Modifiers

Table 850: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_rbp	cam_TR_B_rbp	
cam_TR_AB_rbp	cam_TR_AB_rbp	

Product

Table 851: Properties of each product.

Id	Name	SBO
cam_TR_AB_rbp	cam_TR_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

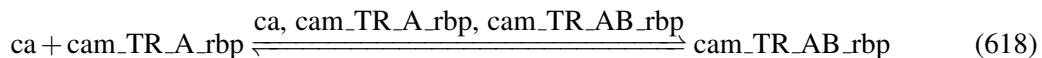
$$v_{282} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_B_rbp}] - \text{koff_AT} \cdot [\text{cam_TR_AB_rbp}]) \quad (617)$$

7.283 Reaction ca_binding_to_cam_TR_A_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A.rbp on site B

Reaction equation



Reactants

Table 852: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_rbp	cam_TR_A_rbp	

Modifiers

Table 853: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_rbp	cam_TR_A_rbp	
cam_TR_AB_rbp	cam_TR_AB_rbp	

Product

Table 854: Properties of each product.

Id	Name	SBO
cam_TR_AB_rbp	cam_TR_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

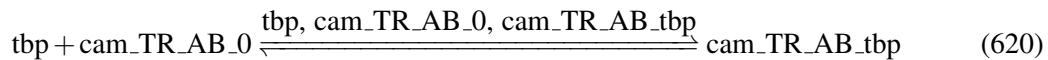
$$v_{283} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_A_rbp}] - \text{koff_BT} \cdot [\text{cam_TR_AB_rbp}]) \quad (619)$$

7.284 Reaction tbp_binding_to_cam_TR_AB_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_AB_0

Reaction equation



Reactants

Table 855: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_AB_0	cam_TR_AB_0	

Modifiers

Table 856: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_AB_0	cam_TR_AB_0	
cam_TR_AB_tbp	cam_TR_AB_tbp	

Product

Table 857: Properties of each product.

Id	Name	SBO
cam_TR_AB_tbp	cam_TR_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{284} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_AB_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_AB_tbp}]) \quad (621)$$

7.285 Reaction ca_binding_to_cam_TR_B_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B.tbp on site A

Reaction equation



Reactants

Table 858: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_tbp	cam_TR_B_tbp	

Modifiers

Table 859: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_tbp	cam_TR_B_tbp	
cam_TR_AB_tbp	cam_TR_AB_tbp	

Product

Table 860: Properties of each product.

Id	Name	SBO
cam_TR_AB_tbp	cam_TR_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

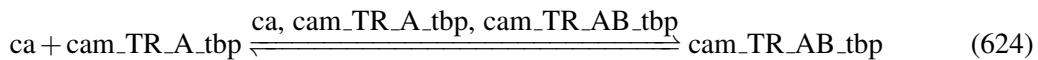
$$v_{285} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_B_tbp}] - \text{koff_AT} \cdot [\text{cam_TR_AB_tbp}]) \quad (623)$$

7.286 Reaction ca_binding_to_cam_TR_A_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A.tbp on site B

Reaction equation



Reactants

Table 861: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_tbp	cam_TR_A_tbp	

Modifiers

Table 862: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_tbp	cam_TR_A_tbp	
cam_TR_AB_tbp	cam_TR_AB_tbp	

Product

Table 863: Properties of each product.

Id	Name	SBO
cam_TR_AB_tbp	cam_TR_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{286} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_A_tbp}] - \text{koff_BT} \cdot [\text{cam_TR_AB_tbp}]) \quad (625)$$

7.287 Reaction ca_binding_to_cam_TR_C_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C_0 on site A

Reaction equation



Reactants

Table 864: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_0	cam_TR_C_0	

Modifiers

Table 865: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_0	cam_TR_C_0	
cam_TR_AC_0	cam_TR_AC_0	

Product

Table 866: Properties of each product.

Id	Name	SBO
cam_TR_AC_0	cam_TR_AC_0	

Kinetic Law

Derived unit contains undeclared units

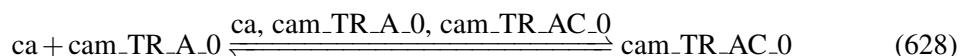
$$v_{287} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_C_0}] - \text{koff_AT} \cdot [\text{cam_TR_AC_0}]) \quad (627)$$

7.288 Reaction ca_binding_to_cam_TR_A_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A.0 on site C

Reaction equation



Reactants

Table 867: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_0	cam_TR_A_0	

Modifiers

Table 868: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_0	cam_TR_A_0	
cam_TR_AC_0	cam_TR_AC_0	

Product

Table 869: Properties of each product.

Id	Name	SBO
cam_TR_AC_0	cam_TR_AC_0	

Kinetic Law

Derived unit contains undeclared units

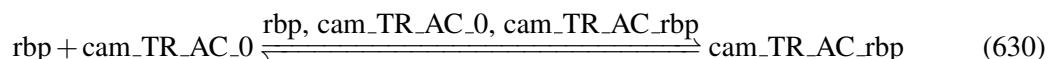
$$v_{288} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_A_0}] - \text{koff_CR} \cdot [\text{cam_TR_AC_0}]) \quad (629)$$

7.289 Reaction rbp_binding_to_cam_TR_AC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_AC_0

Reaction equation



Reactants

Table 870: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_AC_0	cam_TR_AC_0	

Modifiers

Table 871: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TR_AC_0	cam_TR_AC_0	
cam_TR_AC_rbp	cam_TR_AC_rbp	

Product

Table 872: Properties of each product.

Id	Name	SBO
cam_TR_AC_rbp	cam_TR_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

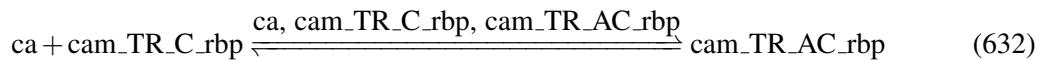
$$v_{289} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_AC_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_AC_rbp}]) \quad (631)$$

7.290 Reaction ca_binding_to_cam_TR_C_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C.rbp on site A

Reaction equation



Reactants

Table 873: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_rbp	cam_TR_C_rbp	

Modifiers

Table 874: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_rbp	cam_TR_C_rbp	
cam_TR_AC_rbp	cam_TR_AC_rbp	

Product

Table 875: Properties of each product.

Id	Name	SBO
cam_TR_AC_rbp	cam_TR_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

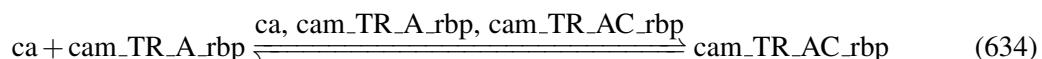
$$v_{290} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_C_rbp}] - \text{koff_AT} \cdot [\text{cam_TR_AC_rbp}]) \quad (633)$$

7.291 Reaction ca_binding_to_cam_TR_A_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A.rbp on site C

Reaction equation



Reactants

Table 876: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_rbp	cam_TR_A_rbp	

Modifiers

Table 877: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_rbp	cam_TR_A_rbp	
cam_TR_AC_rbp	cam_TR_AC_rbp	

Product

Table 878: Properties of each product.

Id	Name	SBO
cam_TR_AC_rbp	cam_TR_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{291} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_A_rbp}] - \text{koff_CR} \cdot [\text{cam_TR_AC_rbp}]) \quad (635)$$

7.292 Reaction tbp_binding_to_cam_TR_AC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_AC_0

Reaction equation



Reactants

Table 879: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_AC_0	cam_TR_AC_0	

Modifiers

Table 880: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_AC_0	cam_TR_AC_0	
cam_TR_AC_tbp	cam_TR_AC_tbp	

Product

Table 881: Properties of each product.

Id	Name	SBO
cam_TR_AC_tbp	cam_TR_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{292} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_AC_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_AC_tbp}]) \quad (637)$$

7.293 Reaction ca_binding_to_cam_TR_C_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C.tbp on site A

Reaction equation



Reactants

Table 882: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_tbp	cam_TR_C_tbp	

Modifiers

Table 883: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_tbp	cam_TR_C_tbp	
cam_TR_AC_tbp	cam_TR_AC_tbp	

Product

Table 884: Properties of each product.

Id	Name	SBO
cam_TR_AC_tbp	cam_TR_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

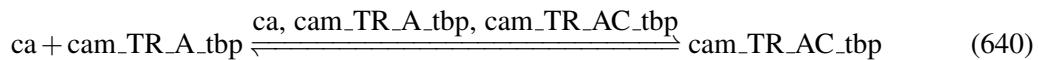
$$v_{293} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_C_tbp}] - \text{koff_AT} \cdot [\text{cam_TR_AC_tbp}]) \quad (639)$$

7.294 Reaction ca_binding_to_cam_TR_A_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A.tbp on site C

Reaction equation



Reactants

Table 885: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_tbp	cam_TR_A_tbp	

Modifiers

Table 886: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_tbp	cam_TR_A_tbp	
cam_TR_AC_tbp	cam_TR_AC_tbp	

Product

Table 887: Properties of each product.

Id	Name	SBO
cam_TR_AC_tbp	cam_TR_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{294} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_A_tbp}] - \text{koff_CR} \cdot [\text{cam_TR_AC_tbp}]) \quad (641)$$

7.295 Reaction ca_binding_to_cam_TR_D_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.D_0 on site A

Reaction equation



Reactants

Table 888: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_0	cam_TR_D_0	

Modifiers

Table 889: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_0	cam_TR_D_0	
cam_TR_AD_0	cam_TR_AD_0	

Product

Table 890: Properties of each product.

Id	Name	SBO
cam_TR_AD_0	cam_TR_AD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{295} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_D_0}] - \text{koff_AT} \cdot [\text{cam_TR_AD_0}]) \quad (643)$$

7.296 Reaction ca_binding_to_cam_TR_A_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A.0 on site D

Reaction equation



Reactants

Table 891: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_0	cam_TR_A_0	

Modifiers

Table 892: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_0	cam_TR_A_0	
cam_TR_AD_0	cam_TR_AD_0	

Product

Table 893: Properties of each product.

Id	Name	SBO
cam_TR_AD_0	cam_TR_AD_0	

Kinetic Law

Derived unit contains undeclared units

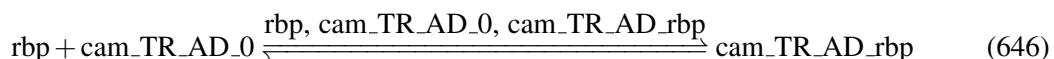
$$v_{296} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_A_0}] - \text{koff_DR} \cdot [\text{cam_TR_AD_0}]) \quad (645)$$

7.297 Reaction rbp_binding_to_cam_TR_AD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_AD_0

Reaction equation



Reactants

Table 894: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_AD_0	cam_TR_AD_0	

Modifiers

Table 895: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TR_AD_0	cam_TR_AD_0	
cam_TR_AD_rbp	cam_TR_AD_rbp	

Product

Table 896: Properties of each product.

Id	Name	SBO
cam_TR_AD_rbp	cam_TR_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{297} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_AD_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_AD_rbp}]) \quad (647)$$

7.298 Reaction ca_binding_to_cam_TR_D_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_D_rbp on site A

Reaction equation



Reactants

Table 897: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_rbp	cam_TR_D_rbp	

Modifiers

Table 898: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_rbp	cam_TR_D_rbp	
cam_TR_AD_rbp	cam_TR_AD_rbp	

Product

Table 899: Properties of each product.

Id	Name	SBO
cam_TR_AD_rbp	cam_TR_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{298} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_D_rbp}] - \text{koff_AT} \cdot [\text{cam_TR_AD_rbp}]) \quad (649)$$

7.299 Reaction ca_binding_to_cam_TR_A_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A.rbp on site D

Reaction equation



Reactants

Table 900: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_rbp	cam_TR_A_rbp	

Modifiers

Table 901: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_rbp	cam_TR_A_rbp	
cam_TR_AD_rbp	cam_TR_AD_rbp	

Product

Table 902: Properties of each product.

Id	Name	SBO
cam_TR_AD_rbp	cam_TR_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

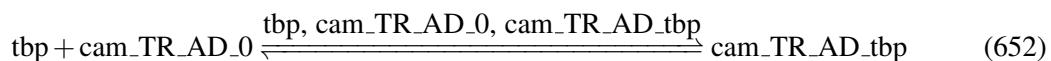
$$v_{299} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_A_rbp}] - \text{koff_DR} \cdot [\text{cam_TR_AD_rbp}]) \quad (651)$$

7.300 Reaction tbp_binding_to_cam_TR_AD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_AD_0

Reaction equation



Reactants

Table 903: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_AD_0	cam_TR_AD_0	

Modifiers

Table 904: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_AD_0	cam_TR_AD_0	
cam_TR_AD_tbp	cam_TR_AD_tbp	

Product

Table 905: Properties of each product.

Id	Name	SBO
cam_TR_AD_tbp	cam_TR_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{300} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_AD_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_AD_tbp}]) \quad (653)$$

7.301 Reaction ca_binding_to_cam_TR_D_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.D.tbp on site A

Reaction equation



Reactants

Table 906: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_tbp	cam_TR_D_tbp	

Modifiers

Table 907: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_tbp	cam_TR_D_tbp	
cam_TR_AD_tbp	cam_TR_AD_tbp	

Product

Table 908: Properties of each product.

Id	Name	SBO
cam_TR_AD_tbp	cam_TR_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

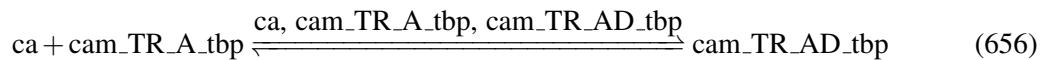
$$v_{301} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_D_tbp}] - \text{koff_AT} \cdot [\text{cam_TR_AD_tbp}]) \quad (655)$$

7.302 Reaction ca_binding_to_cam_TR_A_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.A.tbp on site D

Reaction equation



Reactants

Table 909: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_A_tbp	cam_TR_A_tbp	

Modifiers

Table 910: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_A_tbp	cam_TR_A_tbp	
cam_TR_AD_tbp	cam_TR_AD_tbp	

Product

Table 911: Properties of each product.

Id	Name	SBO
cam_TR_AD_tbp	cam_TR_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{302} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_A_tbp}] - \text{koff_DR} \cdot [\text{cam_TR_AD_tbp}]) \quad (657)$$

7.303 Reaction ca_binding_to_cam_TR_C_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C_0 on site B

Reaction equation



Reactants

Table 912: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_0	cam_TR_C_0	

Modifiers

Table 913: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_0	cam_TR_C_0	
cam_TR_BC_0	cam_TR_BC_0	

Product

Table 914: Properties of each product.

Id	Name	SBO
cam_TR_BC_0	cam_TR_BC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{303} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_C_0}] - \text{koff_BT} \cdot [\text{cam_TR_BC_0}]) \quad (659)$$

7.304 Reaction ca_binding_to_cam_TR_B_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B_0 on site C

Reaction equation



Reactants

Table 915: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_0	cam_TR_B_0	

Modifiers

Table 916: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_0	cam_TR_B_0	
cam_TR_BC_0	cam_TR_BC_0	

Product

Table 917: Properties of each product.

Id	Name	SBO
cam_TR_BC_0	cam_TR_BC_0	

Kinetic Law

Derived unit contains undeclared units

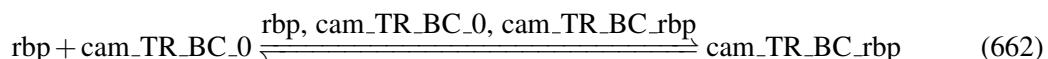
$$v_{304} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_B_0}] - \text{koff_CR} \cdot [\text{cam_TR_BC_0}]) \quad (661)$$

7.305 Reaction rbp_binding_to_cam_TR_BC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_BC_0

Reaction equation



Reactants

Table 918: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_BC_0	cam_TR_BC_0	

Modifiers

Table 919: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TR_BC_0	cam_TR_BC_0	
cam_TR_BC_rbp	cam_TR_BC_rbp	

Product

Table 920: Properties of each product.

Id	Name	SBO
cam_TR_BC_rbp	cam_TR_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

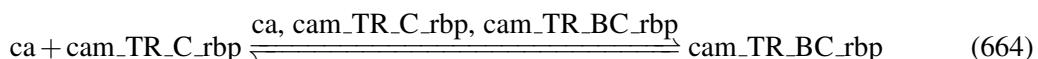
$$v_{305} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_BC_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_BC_rbp}]) \quad (663)$$

7.306 Reaction ca_binding_to_cam_TR_C_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C.rbp on site B

Reaction equation



Reactants

Table 921: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_rbp	cam_TR_C_rbp	

Modifiers

Table 922: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_rbp	cam_TR_C_rbp	
cam_TR_BC_rbp	cam_TR_BC_rbp	

Product

Table 923: Properties of each product.

Id	Name	SBO
cam_TR_BC_rbp	cam_TR_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

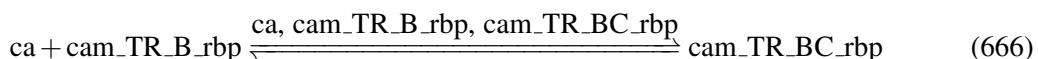
$$v_{306} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_C_rbp}] - \text{koff_BT} \cdot [\text{cam_TR_BC_rbp}]) \quad (665)$$

7.307 Reaction ca_binding_to_cam_TR_B_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B.rbp on site C

Reaction equation



Reactants

Table 924: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_rbp	cam_TR_B_rbp	

Modifiers

Table 925: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_rbp	cam_TR_B_rbp	
cam_TR_BC_rbp	cam_TR_BC_rbp	

Product

Table 926: Properties of each product.

Id	Name	SBO
cam_TR_BC_rbp	cam_TR_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

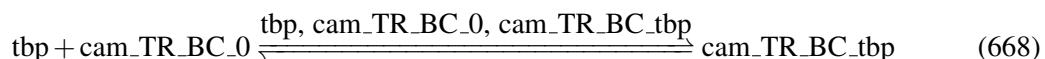
$$v_{307} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_B_rbp}] - \text{koff_CR} \cdot [\text{cam_TR_BC_rbp}]) \quad (667)$$

7.308 Reaction tbp_binding_to_cam_TR_BC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_BC_0

Reaction equation



Reactants

Table 927: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_BC_0	cam_TR_BC_0	

Modifiers

Table 928: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_BC_0	cam_TR_BC_0	
cam_TR_BC_tbp	cam_TR_BC_tbp	

Product

Table 929: Properties of each product.

Id	Name	SBO
cam_TR_BC_tbp	cam_TR_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{308} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_BC_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_BC_tbp}]) \quad (669)$$

7.309 Reaction ca_binding_to_cam_TR_C_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C.tbp on site B

Reaction equation



Reactants

Table 930: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_tbp	cam_TR_C_tbp	

Modifiers

Table 931: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_tbp	cam_TR_C_tbp	
cam_TR_BC_tbp	cam_TR_BC_tbp	

Product

Table 932: Properties of each product.

Id	Name	SBO
cam_TR_BC_tbp	cam_TR_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{309} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_C_tbp}] - \text{koff_BT} \cdot [\text{cam_TR_BC_tbp}]) \quad (671)$$

7.310 Reaction ca_binding_to_cam_TR_B_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B.tbp on site C

Reaction equation



Reactants

Table 933: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_tbp	cam_TR_B_tbp	

Modifiers

Table 934: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_tbp	cam_TR_B_tbp	
cam_TR_BC_tbp	cam_TR_BC_tbp	

Product

Table 935: Properties of each product.

Id	Name	SBO
cam_TR_BC_tbp	cam_TR_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{310} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_B_tbp}] - \text{koff_CR} \cdot [\text{cam_TR_BC_tbp}]) \quad (673)$$

7.311 Reaction ca_binding_to_cam_TR_D_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.D_0 on site B

Reaction equation



Reactants

Table 936: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_0	cam_TR_D_0	

Modifiers

Table 937: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_0	cam_TR_D_0	
cam_TR_BD_0	cam_TR_BD_0	

Product

Table 938: Properties of each product.

Id	Name	SBO
cam_TR_BD_0	cam_TR_BD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{311} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_D_0}] - \text{koff_BT} \cdot [\text{cam_TR_BD_0}]) \quad (675)$$

7.312 Reaction ca_binding_to_cam_TR_B_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B_0 on site D

Reaction equation



Reactants

Table 939: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_0	cam_TR_B_0	

Modifiers

Table 940: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_0	cam_TR_B_0	
cam_TR_BD_0	cam_TR_BD_0	

Product

Table 941: Properties of each product.

Id	Name	SBO
cam_TR_BD_0	cam_TR_BD_0	

Kinetic Law

Derived unit contains undeclared units

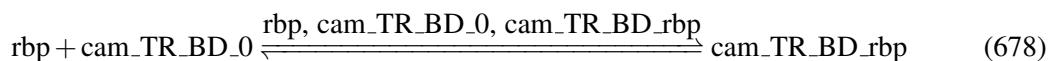
$$v_{312} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_B_0}] - \text{koff_DR} \cdot [\text{cam_TR_BD_0}]) \quad (677)$$

7.313 Reaction rbp_binding_to_cam_TR_BD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_BD_0

Reaction equation



Reactants

Table 942: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_TR_BD_0	cam_TR_BD_0	

Modifiers

Table 943: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TR_BD_0	cam_TR_BD_0	
cam_TR_BD_rbp	cam_TR_BD_rbp	

Product

Table 944: Properties of each product.

Id	Name	SBO
cam_TR_BD_rbp	cam_TR_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{313} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_TR_BD_0}] - \text{koff_rpb_TR} \cdot [\text{cam_TR_BD_rbp}]) \quad (679)$$

7.314 Reaction ca_binding_to_cam_TR_D_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.D.rbp on site B

Reaction equation



Reactants

Table 945: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_rbp	cam_TR_D_rbp	

Modifiers

Table 946: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_rbp	cam_TR_D_rbp	
cam_TR_BD_rbp	cam_TR_BD_rbp	

Product

Table 947: Properties of each product.

Id	Name	SBO
cam_TR_BD_rbp	cam_TR_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{314} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_D_rbp}] - \text{koff_BT} \cdot [\text{cam_TR_BD_rbp}]) \quad (681)$$

7.315 Reaction ca_binding_to_cam_TR_B_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B.rbp on site D

Reaction equation



Reactants

Table 948: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_rbp	cam_TR_B_rbp	

Modifiers

Table 949: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_rbp	cam_TR_B_rbp	
cam_TR_BD_rbp	cam_TR_BD_rbp	

Product

Table 950: Properties of each product.

Id	Name	SBO
cam_TR_BD_rbp	cam_TR_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

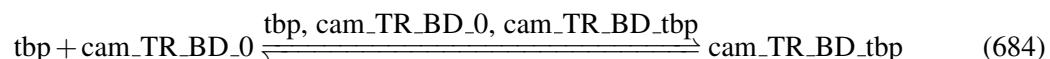
$$v_{315} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_B_rbp}] - \text{koff_DR} \cdot [\text{cam_TR_BD_rbp}]) \quad (683)$$

7.316 Reaction tbp_binding_to_cam_TR_BD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_BD_0

Reaction equation



Reactants

Table 951: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_BD_0	cam_TR_BD_0	

Modifiers

Table 952: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_BD_0	cam_TR_BD_0	
cam_TR_BD_tbp	cam_TR_BD_tbp	

Product

Table 953: Properties of each product.

Id	Name	SBO
cam_TR_BD_tbp	cam_TR_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

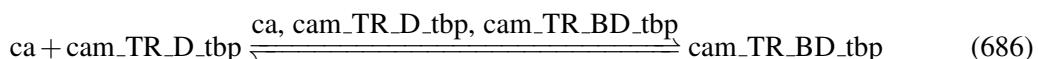
$$v_{316} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_BD_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_BD_tbp}]) \quad (685)$$

7.317 Reaction ca_binding_to_cam_TR_D_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.D.tbp on site B

Reaction equation



Reactants

Table 954: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_tbp	cam_TR_D_tbp	

Modifiers

Table 955: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_tbp	cam_TR_D_tbp	
cam_TR_BD_tbp	cam_TR_BD_tbp	

Product

Table 956: Properties of each product.

Id	Name	SBO
cam_TR_BD_tbp	cam_TR_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{317} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_D_tbp}] - \text{koff_BT} \cdot [\text{cam_TR_BD_tbp}]) \quad (687)$$

7.318 Reaction ca_binding_to_cam_TR_B_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.B.tbp on site D

Reaction equation



Reactants

Table 957: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_B_tbp	cam_TR_B_tbp	

Modifiers

Table 958: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_B_tbp	cam_TR_B_tbp	
cam_TR_BD_tbp	cam_TR_BD_tbp	

Product

Table 959: Properties of each product.

Id	Name	SBO
cam_TR_BD_tbp	cam_TR_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{318} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_B_tbp}] - \text{koff_DR} \cdot [\text{cam_TR_BD_tbp}]) \quad (689)$$

7.319 Reaction ca_binding_to_cam_TR_D_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.D_0 on site C

Reaction equation



Reactants

Table 960: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_0	cam_TR_D_0	

Modifiers

Table 961: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_0	cam_TR_D_0	
cam_TR_CD_0	cam_TR_CD_0	

Product

Table 962: Properties of each product.

Id	Name	SBO
cam_TR_CD_0	cam_TR_CD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{319} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_D_0}] - \text{koff_CR} \cdot [\text{cam_TR_CD_0}]) \quad (691)$$

7.320 Reaction ca_binding_to_cam_TR_C_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C_0 on site D

Reaction equation



Reactants

Table 963: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_0	cam_TR_C_0	

Modifiers

Table 964: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_0	cam_TR_C_0	
cam_TR_CD_0	cam_TR_CD_0	

Product

Table 965: Properties of each product.

Id	Name	SBO
cam_TR_CD_0	cam_TR_CD_0	

Kinetic Law

Derived unit contains undeclared units

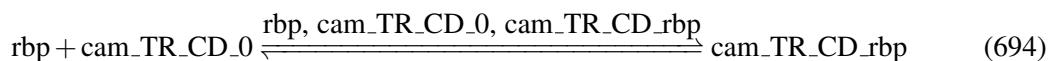
$$v_{320} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_C_0}] - \text{koff_DR} \cdot [\text{cam_TR_CD_0}]) \quad (693)$$

7.321 Reaction rbp_binding_to_cam_TR_CD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_CD_0

Reaction equation



Reactants

Table 966: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_TR_CD_0	cam_TR_CD_0	

Modifiers

Table 967: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TR_CD_0	cam_TR_CD_0	
cam_TR_CD_rbp	cam_TR_CD_rbp	

Product

Table 968: Properties of each product.

Id	Name	SBO
cam_TR_CD_rbp	cam_TR_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

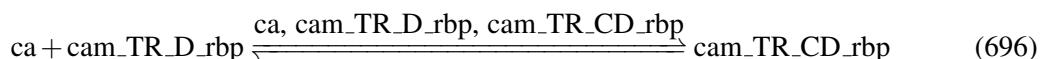
$$v_{321} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_TR_CD_0}] - \text{koff_rpb_TR} \cdot [\text{cam_TR_CD_rbp}]) \quad (695)$$

7.322 Reaction ca_binding_to_cam_TR_D_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.D.rbp on site C

Reaction equation



Reactants

Table 969: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_rbp	cam_TR_D_rbp	

Modifiers

Table 970: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_rbp	cam_TR_D_rbp	
cam_TR_CD_rbp	cam_TR_CD_rbp	

Product

Table 971: Properties of each product.

Id	Name	SBO
cam_TR_CD_rbp	cam_TR_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

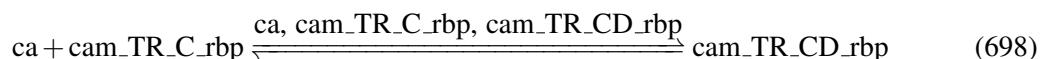
$$v_{322} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_D_rbp}] - \text{koff_CR} \cdot [\text{cam_TR_CD_rbp}]) \quad (697)$$

7.323 Reaction ca_binding_to_cam_TR_C_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C.rbp on site D

Reaction equation



Reactants

Table 972: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_rbp	cam_TR_C_rbp	

Modifiers

Table 973: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_rbp	cam_TR_C_rbp	
cam_TR_CD_rbp	cam_TR_CD_rbp	

Product

Table 974: Properties of each product.

Id	Name	SBO
cam_TR_CD_rbp	cam_TR_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

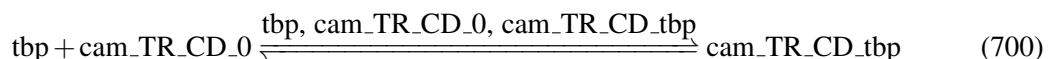
$$v_{323} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_C_rbp}] - \text{koff_DR} \cdot [\text{cam_TR_CD_rbp}]) \quad (699)$$

7.324 Reaction tbp_binding_to_cam_TR_CD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_CD_0

Reaction equation



Reactants

Table 975: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_CD_0	cam_TR_CD_0	

Modifiers

Table 976: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_CD_0	cam_TR_CD_0	
cam_TR_CD_tbp	cam_TR_CD_tbp	

Product

Table 977: Properties of each product.

Id	Name	SBO
cam_TR_CD_tbp	cam_TR_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{324} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_CD_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_CD_tbp}]) \quad (701)$$

7.325 Reaction ca_binding_to_cam_TR_D_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.D.tbp on site C

Reaction equation



Reactants

Table 978: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_D_tbp	cam_TR_D_tbp	

Modifiers

Table 979: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_D_tbp	cam_TR_D_tbp	
cam_TR_CD_tbp	cam_TR_CD_tbp	

Product

Table 980: Properties of each product.

Id	Name	SBO
cam_TR_CD_tbp	cam_TR_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{325} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_D_tbp}] - \text{koff_CR} \cdot [\text{cam_TR_CD_tbp}]) \quad (703)$$

7.326 Reaction ca_binding_to_cam_TR_C_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.C.tbp on site D

Reaction equation



Reactants

Table 981: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_C_tbp	cam_TR_C_tbp	

Modifiers

Table 982: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_C_tbp	cam_TR_C_tbp	
cam_TR_CD_tbp	cam_TR_CD_tbp	

Product

Table 983: Properties of each product.

Id	Name	SBO
cam_TR_CD_tbp	cam_TR_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

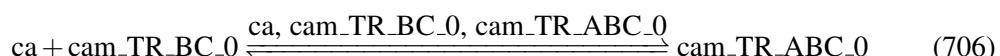
$$v_{326} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_C_tbp}] - \text{koff_DR} \cdot [\text{cam_TR_CD_tbp}]) \quad (705)$$

7.327 Reaction ca_binding_to_cam_TR_BC_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BC.0 on site A

Reaction equation



Reactants

Table 984: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BC_0	cam_TR_BC_0	

Modifiers

Table 985: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BC_0	cam_TR_BC_0	
cam_TR_ABC_0	cam_TR_ABC_0	

Product

Table 986: Properties of each product.

Id	Name	SBO
cam_TR_ABC_0	cam_TR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

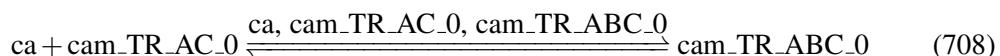
$$v_{327} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BC_0}] - \text{koff_AT} \cdot [\text{cam_TR_ABC_0}]) \quad (707)$$

7.328 Reaction ca_binding_to_cam_TR_AC_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AC_0 on site B

Reaction equation



Reactants

Table 987: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AC_0	cam_TR_AC_0	

Modifiers

Table 988: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AC_0	cam_TR_AC_0	
cam_TR_ABC_0	cam_TR_ABC_0	

Product

Table 989: Properties of each product.

Id	Name	SBO
cam_TR_ABC_0	cam_TR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

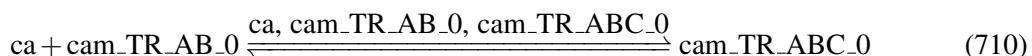
$$v_{328} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_AC_0}] - \text{koff_BT} \cdot [\text{cam_TR_ABC_0}]) \quad (709)$$

7.329 Reaction ca_binding_to_cam_TR_AB_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_AB_0 on site C

Reaction equation



Reactants

Table 990: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AB_0	cam_TR_AB_0	

Modifiers

Table 991: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AB_0	cam_TR_AB_0	
cam_TR_ABC_0	cam_TR_ABC_0	

Product

Table 992: Properties of each product.

Id	Name	SBO
cam_TR_ABC_0	cam_TR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

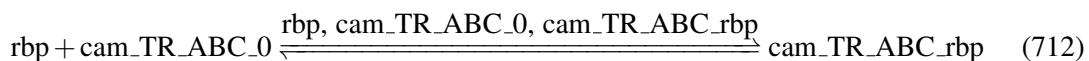
$$v_{329} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_AB_0}] - \text{koff_CR} \cdot [\text{cam_TR_ABC_0}]) \quad (711)$$

7.330 Reaction rbp_binding_to_cam_TR_ABC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_ABC_0

Reaction equation



Reactants

Table 993: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_TR_ABC_0	cam_TR_ABC_0	

Modifiers

Table 994: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TR_ABC_0	cam_TR_ABC_0	
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Product

Table 995: Properties of each product.

Id	Name	SBO
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

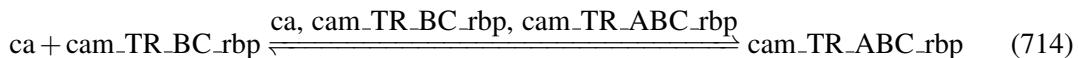
$$v_{330} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_ABC_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_ABC_rbp}]) \quad (713)$$

7.331 Reaction ca_binding_to_cam_TR_BC_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_BC_rbp on site A

Reaction equation



Reactants

Table 996: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BC_rbp	cam_TR_BC_rbp	

Modifiers

Table 997: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BC_rbp	cam_TR_BC_rbp	
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Product

Table 998: Properties of each product.

Id	Name	SBO
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

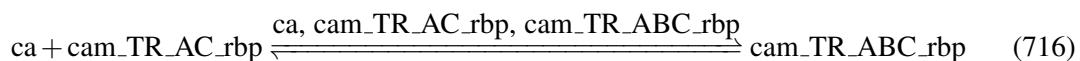
$$v_{331} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BC_rbp}] - \text{koff_AT} \cdot [\text{cam_TR_ABC_rbp}]) \quad (715)$$

7.332 Reaction ca_binding_to_cam_TR_AC_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AC.rbp on site B

Reaction equation



Reactants

Table 999: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AC_rbp	cam_TR_AC_rbp	

Modifiers

Table 1000: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AC_rbp	cam_TR_AC_rbp	
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Product

Table 1001: Properties of each product.

Id	Name	SBO
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

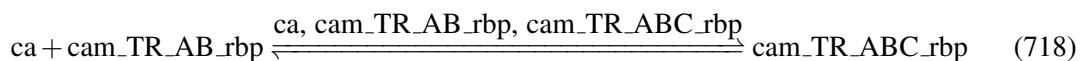
$$v_{332} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_AC_rbp}] - \text{koff_BT} \cdot [\text{cam_TR_ABC_rbp}]) \quad (717)$$

7.333 Reaction ca_binding_to_cam_TR_AB_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_AB_rbp on site C

Reaction equation



Reactants

Table 1002: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AB_rbp	cam_TR_AB_rbp	

Modifiers

Table 1003: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AB_rbp	cam_TR_AB_rbp	
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Product

Table 1004: Properties of each product.

Id	Name	SBO
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

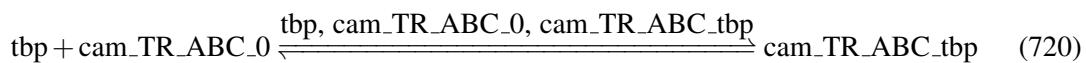
$$v_{333} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_AB_rbp}] - \text{koff_CR} \cdot [\text{cam_TR_ABC_rbp}]) \quad (719)$$

7.334 Reaction tbp_binding_to_cam_TR_ABC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_ABC_0

Reaction equation



Reactants

Table 1005: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_ABC_0	cam_TR_ABC_0	

Modifiers

Table 1006: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_ABC_0	cam_TR_ABC_0	
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Product

Table 1007: Properties of each product.

Id	Name	SBO
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

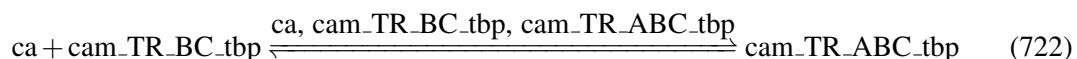
$$v_{334} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_ABC_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_ABC_tbp}]) \quad (721)$$

7.335 Reaction ca_binding_to_cam_TR_BC_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_BC_tbp on site A

Reaction equation



Reactants

Table 1008: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BC_tbp	cam_TR_BC_tbp	

Modifiers

Table 1009: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BC_tbp	cam_TR_BC_tbp	
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Product

Table 1010: Properties of each product.

Id	Name	SBO
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

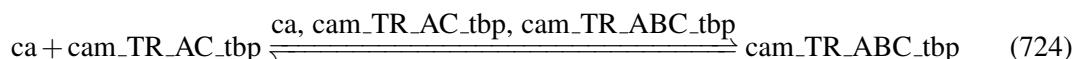
$$v_{335} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BC_tbp}] - \text{koff_AT} \cdot [\text{cam_TR_ABC_tbp}]) \quad (723)$$

7.336 Reaction ca_binding_to_cam_TR_AC_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AC.tbp on site B

Reaction equation



Reactants

Table 1011: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AC_tbp	cam_TR_AC_tbp	

Modifiers

Table 1012: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AC_tbp	cam_TR_AC_tbp	
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Product

Table 1013: Properties of each product.

Id	Name	SBO
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

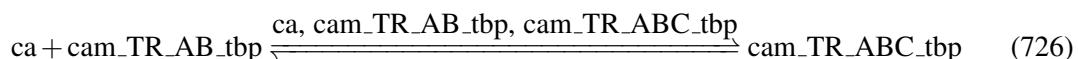
$$v_{336} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_AC_tbp}] - \text{koff_BT} \cdot [\text{cam_TR_ABC_tbp}]) \quad (725)$$

7.337 Reaction ca_binding_to_cam_TR_AB_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_AB_tbp on site C

Reaction equation



Reactants

Table 1014: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AB_tbp	cam_TR_AB_tbp	

Modifiers

Table 1015: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AB_tbp	cam_TR_AB_tbp	
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Product

Table 1016: Properties of each product.

Id	Name	SBO
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

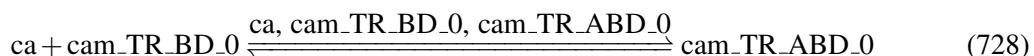
$$v_{337} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_AB_tbp}] - \text{koff_CR} \cdot [\text{cam_TR_ABC_tbp}]) \quad (727)$$

7.338 Reaction ca_binding_to_cam_TR_BD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BD.0 on site A

Reaction equation



Reactants

Table 1017: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BD_0	cam_TR_BD_0	

Modifiers

Table 1018: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BD_0	cam_TR_BD_0	
cam_TR_ABD_0	cam_TR_ABD_0	

Product

Table 1019: Properties of each product.

Id	Name	SBO
cam_TR_ABD_0	cam_TR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

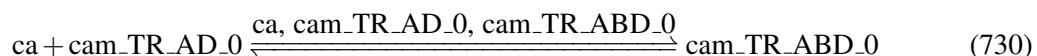
$$v_{338} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BD_0}] - \text{koff_AT} \cdot [\text{cam_TR_ABD_0}]) \quad (729)$$

7.339 Reaction ca_binding_to_cam_TR_AD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AD_0 on site B

Reaction equation



Reactants

Table 1020: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AD_0	cam_TR_AD_0	

Modifiers

Table 1021: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AD_0	cam_TR_AD_0	
cam_TR_ABD_0	cam_TR_ABD_0	

Product

Table 1022: Properties of each product.

Id	Name	SBO
cam_TR_ABD_0	cam_TR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{339} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_AD_0}] - \text{koff_BT} \cdot [\text{cam_TR_ABD_0}]) \quad (731)$$

7.340 Reaction ca_binding_to_cam_TR_AB_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AB.0 on site D

Reaction equation



Reactants

Table 1023: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AB_0	cam_TR_AB_0	

Modifiers

Table 1024: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AB_0	cam_TR_AB_0	
cam_TR_ABD_0	cam_TR_ABD_0	

Product

Table 1025: Properties of each product.

Id	Name	SBO
cam_TR_ABD_0	cam_TR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

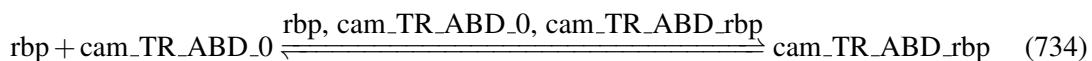
$$v_{340} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_AB_0}] - \text{koff_DR} \cdot [\text{cam_TR_ABD_0}]) \quad (733)$$

7.341 Reaction rbp_binding_to_cam_TR_ABD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_ABD_0

Reaction equation



Reactants

Table 1026: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_ABD_0	cam_TR_ABD_0	

Modifiers

Table 1027: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TR_ABD_0	cam_TR_ABD_0	
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Product

Table 1028: Properties of each product.

Id	Name	SBO
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

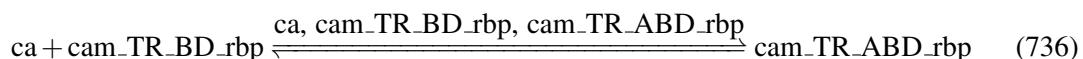
$$v_{341} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_ABD_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_ABD_rbp}]) \quad (735)$$

7.342 Reaction ca_binding_to_cam_TR_BD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_BD_rbp on site A

Reaction equation



Reactants

Table 1029: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BD_rbp	cam_TR_BD_rbp	

Modifiers

Table 1030: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BD_rbp	cam_TR_BD_rbp	
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Product

Table 1031: Properties of each product.

Id	Name	SBO
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

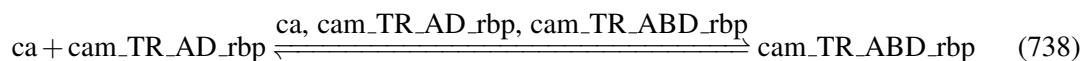
$$v_{342} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BD_rbp}] - \text{koff_AT} \cdot [\text{cam_TR_ABD_rbp}]) \quad (737)$$

7.343 Reaction ca_binding_to_cam_TR_AD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AD.rbp on site B

Reaction equation



Reactants

Table 1032: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AD_rbp	cam_TR_AD_rbp	

Modifiers

Table 1033: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AD_rbp	cam_TR_AD_rbp	
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Product

Table 1034: Properties of each product.

Id	Name	SBO
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

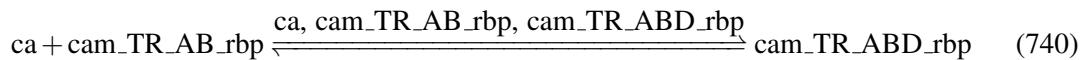
$$v_{343} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_AD_rbp}] - \text{koff_BT} \cdot [\text{cam_TR_ABD_rbp}]) \quad (739)$$

7.344 Reaction ca_binding_to_cam_TR_AB_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AB.rbp on site D

Reaction equation



Reactants

Table 1035: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AB_rbp	cam_TR_AB_rbp	

Modifiers

Table 1036: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AB_rbp	cam_TR_AB_rbp	
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Product

Table 1037: Properties of each product.

Id	Name	SBO
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

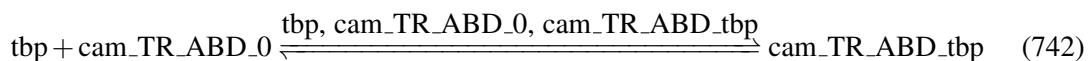
$$v_{344} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_AB_rbp}] - \text{koff_DR} \cdot [\text{cam_TR_ABD_rbp}]) \quad (741)$$

7.345 Reaction tbp_binding_to_cam_TR_ABD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_ABD_0

Reaction equation



Reactants

Table 1038: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_ABD_0	cam_TR_ABD_0	

Modifiers

Table 1039: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_ABD_0	cam_TR_ABD_0	
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Product

Table 1040: Properties of each product.

Id	Name	SBO
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

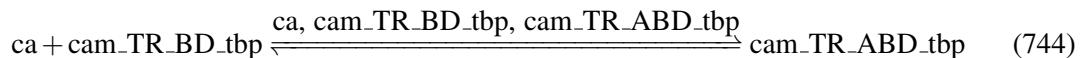
$$v_{345} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_ABD_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_ABD_tbp}]) \quad (743)$$

7.346 Reaction ca_binding_to_cam_TR_BD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_BD_tbp on site A

Reaction equation



Reactants

Table 1041: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BD_tbp	cam_TR_BD_tbp	

Modifiers

Table 1042: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BD_tbp	cam_TR_BD_tbp	
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Product

Table 1043: Properties of each product.

Id	Name	SBO
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

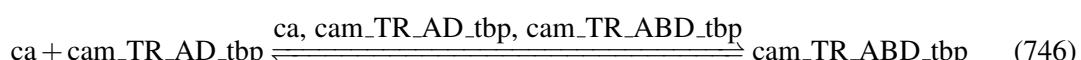
$$v_{346} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BD_tbp}] - \text{koff_AT} \cdot [\text{cam_TR_ABD_tbp}]) \quad (745)$$

7.347 Reaction ca_binding_to_cam_TR_AD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AD.tbp on site B

Reaction equation



Reactants

Table 1044: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AD_tbp	cam_TR_AD_tbp	

Modifiers

Table 1045: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AD_tbp	cam_TR_AD_tbp	
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Product

Table 1046: Properties of each product.

Id	Name	SBO
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

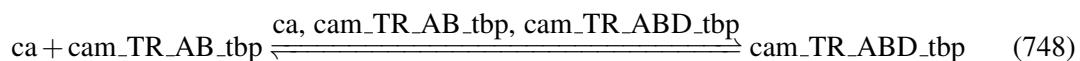
$$v_{347} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_AD_tbp}] - \text{koff_BT} \cdot [\text{cam_TR_ABD_tbp}]) \quad (747)$$

7.348 Reaction ca_binding_to_cam_TR_AB_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AB.tbp on site D

Reaction equation



Reactants

Table 1047: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AB_tbp	cam_TR_AB_tbp	

Modifiers

Table 1048: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AB_tbp	cam_TR_AB_tbp	
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Product

Table 1049: Properties of each product.

Id	Name	SBO
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{348} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_AB_tbp}] - \text{koff_DR} \cdot [\text{cam_TR_ABD_tbp}]) \quad (749)$$

7.349 Reaction ca_binding_to_cam_TR_CD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_CD_0 on site A

Reaction equation



Reactants

Table 1050: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_CD_0	cam_TR_CD_0	

Modifiers

Table 1051: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_CD_0	cam_TR_CD_0	
cam_TR_ACD_0	cam_TR_ACD_0	

Product

Table 1052: Properties of each product.

Id	Name	SBO
cam_TR_ACD_0	cam_TR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

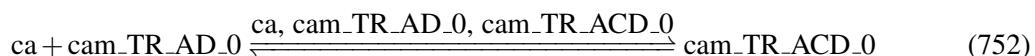
$$v_{349} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_CD_0}] - \text{koff_AT} \cdot [\text{cam_TR_ACD_0}]) \quad (751)$$

7.350 Reaction ca_binding_to_cam_TR_AD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AD.0 on site C

Reaction equation



Reactants

Table 1053: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AD_0	cam_TR_AD_0	

Modifiers

Table 1054: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AD_0	cam_TR_AD_0	
cam_TR_ACD_0	cam_TR_ACD_0	

Product

Table 1055: Properties of each product.

Id	Name	SBO
cam_TR_ACD_0	cam_TR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

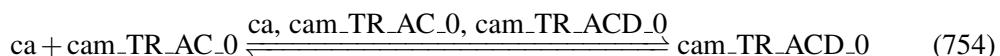
$$v_{350} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_AD_0}] - \text{koff_CR} \cdot [\text{cam_TR_ACD_0}]) \quad (753)$$

7.351 Reaction ca_binding_to_cam_TR_AC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AC_0 on site D

Reaction equation



Reactants

Table 1056: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AC_0	cam_TR_AC_0	

Modifiers

Table 1057: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AC_0	cam_TR_AC_0	
cam_TR_ACD_0	cam_TR_ACD_0	

Product

Table 1058: Properties of each product.

Id	Name	SBO
cam_TR_ACD_0	cam_TR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

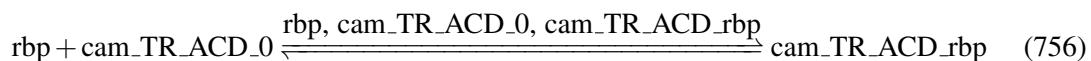
$$v_{351} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_AC_0}] - \text{koff_DR} \cdot [\text{cam_TR_ACD_0}]) \quad (755)$$

7.352 Reaction rbp_binding_to_cam_TR_ACD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_ACD_0

Reaction equation



Reactants

Table 1059: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TR_ACD_0	cam_TR_ACD_0	

Modifiers

Table 1060: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TR_ACD_0	cam_TR_ACD_0	
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Product

Table 1061: Properties of each product.

Id	Name	SBO
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

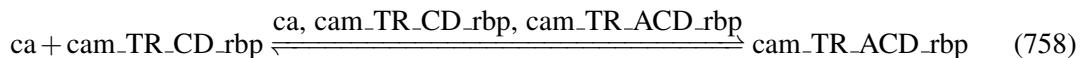
$$v_{352} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_ACD_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_ACD_rbp}]) \quad (757)$$

7.353 Reaction ca_binding_to_cam_TR_CD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_CD_rbp on site A

Reaction equation



Reactants

Table 1062: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_CD_rbp	cam_TR_CD_rbp	

Modifiers

Table 1063: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_CD_rbp	cam_TR_CD_rbp	
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Product

Table 1064: Properties of each product.

Id	Name	SBO
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

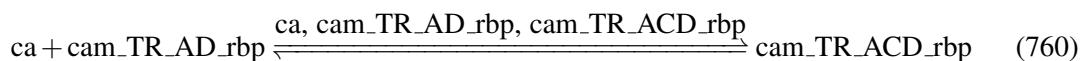
$$v_{353} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_CD_rbp}] - \text{koff_AT} \cdot [\text{cam_TR_ACD_rbp}]) \quad (759)$$

7.354 Reaction ca_binding_to_cam_TR_AD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AD.rbp on site C

Reaction equation



Reactants

Table 1065: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AD_rbp	cam_TR_AD_rbp	

Modifiers

Table 1066: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AD_rbp	cam_TR_AD_rbp	
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Product

Table 1067: Properties of each product.

Id	Name	SBO
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

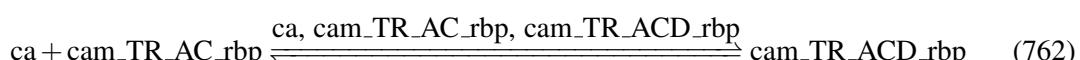
$$v_{354} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_AD_rbp}] - \text{koff_CR} \cdot [\text{cam_TR_ACD_rbp}]) \quad (761)$$

7.355 Reaction ca_binding_to_cam_TR_AC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AC.rbp on site D

Reaction equation



Reactants

Table 1068: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AC_rbp	cam_TR_AC_rbp	

Modifiers

Table 1069: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AC_rbp	cam_TR_AC_rbp	
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Product

Table 1070: Properties of each product.

Id	Name	SBO
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

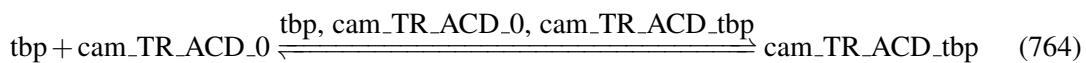
$$v_{355} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_AC_rbp}] - \text{koff_DR} \cdot [\text{cam_TR_ACD_rbp}]) \quad (763)$$

7.356 Reaction tbp_binding_to_cam_TR_ACD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_ACD_0

Reaction equation



Reactants

Table 1071: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_ACD_0	cam_TR_ACD_0	

Modifiers

Table 1072: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_ACD_0	cam_TR_ACD_0	
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Product

Table 1073: Properties of each product.

Id	Name	SBO
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

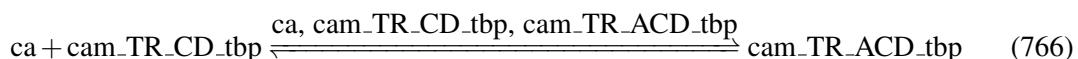
$$v_{356} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_ACD_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_ACD_tbp}]) \quad (765)$$

7.357 Reaction ca_binding_to_cam_TR_CD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_CD_tbp on site A

Reaction equation



Reactants

Table 1074: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_CD_tbp	cam_TR_CD_tbp	

Modifiers

Table 1075: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_CD_tbp	cam_TR_CD_tbp	
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Product

Table 1076: Properties of each product.

Id	Name	SBO
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

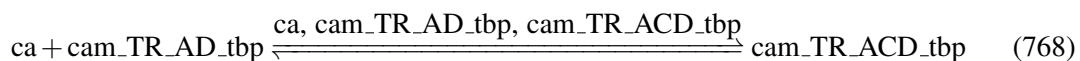
$$v_{357} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_CD_tbp}] - \text{koff_AT} \cdot [\text{cam_TR_ACD_tbp}]) \quad (767)$$

7.358 Reaction ca_binding_to_cam_TR_AD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AD.tbp on site C

Reaction equation



Reactants

Table 1077: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AD_tbp	cam_TR_AD_tbp	

Modifiers

Table 1078: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AD_tbp	cam_TR_AD_tbp	
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Product

Table 1079: Properties of each product.

Id	Name	SBO
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

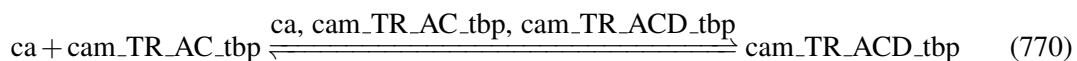
$$v_{358} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_AD_tbp}] - \text{koff_CR} \cdot [\text{cam_TR_ACD_tbp}]) \quad (769)$$

7.359 Reaction ca_binding_to_cam_TR_AC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.AC.tbp on site D

Reaction equation



Reactants

Table 1080: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_AC_tbp	cam_TR_AC_tbp	

Modifiers

Table 1081: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_AC_tbp	cam_TR_AC_tbp	
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Product

Table 1082: Properties of each product.

Id	Name	SBO
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

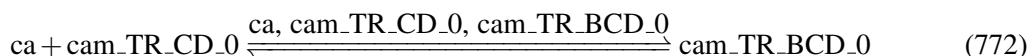
$$v_{359} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_AC_tbp}] - \text{koff_DR} \cdot [\text{cam_TR_ACD_tbp}]) \quad (771)$$

7.360 Reaction ca_binding_to_cam_TR_CD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR_CD_0 on site B

Reaction equation



Reactants

Table 1083: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_CD_0	cam_TR_CD_0	

Modifiers

Table 1084: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_CD_0	cam_TR_CD_0	
cam_TR_BCD_0	cam_TR_BCD_0	

Product

Table 1085: Properties of each product.

Id	Name	SBO
cam_TR_BCD_0	cam_TR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

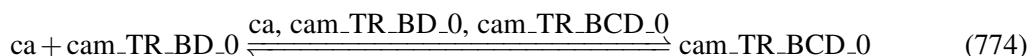
$$v_{360} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_CD_0}] - \text{koff_BT} \cdot [\text{cam_TR_BCD_0}]) \quad (773)$$

7.361 Reaction ca_binding_to_cam_TR_BD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BD.0 on site C

Reaction equation



Reactants

Table 1086: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BD_0	cam_TR_BD_0	

Modifiers

Table 1087: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BD_0	cam_TR_BD_0	
cam_TR_BCD_0	cam_TR_BCD_0	

Product

Table 1088: Properties of each product.

Id	Name	SBO
cam_TR_BCD_0	cam_TR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

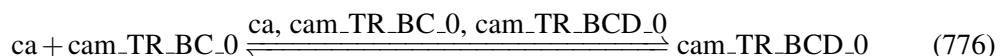
$$v_{361} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_BD_0}] - \text{koff_CR} \cdot [\text{cam_TR_BCD_0}]) \quad (775)$$

7.362 Reaction ca_binding_to_cam_TR_BC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BC.0 on site D

Reaction equation



Reactants

Table 1089: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BC_0	cam_TR_BC_0	

Modifiers

Table 1090: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BC_0	cam_TR_BC_0	
cam_TR_BCD_0	cam_TR_BCD_0	

Product

Table 1091: Properties of each product.

Id	Name	SBO
cam_TR_BCD_0	cam_TR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

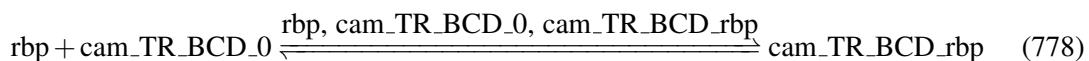
$$v_{362} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_BC_0}] - \text{koff_DR} \cdot [\text{cam_TR_BCD_0}]) \quad (777)$$

7.363 Reaction rbp_binding_to_cam_TR_BCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_BCD_0

Reaction equation



Reactants

Table 1092: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_TR_BCD_0	cam_TR_BCD_0	

Modifiers

Table 1093: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TR_BCD_0	cam_TR_BCD_0	
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Product

Table 1094: Properties of each product.

Id	Name	SBO
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

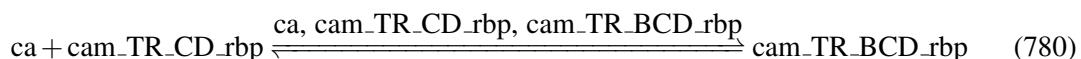
$$v_{363} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_BCD_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_BCD_rbp}]) \quad (779)$$

7.364 Reaction ca_binding_to_cam_TR_CD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_CD_rbp on site B

Reaction equation



Reactants

Table 1095: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_CD_rbp	cam_TR_CD_rbp	

Modifiers

Table 1096: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_CD_rbp	cam_TR_CD_rbp	
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Product

Table 1097: Properties of each product.

Id	Name	SBO
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

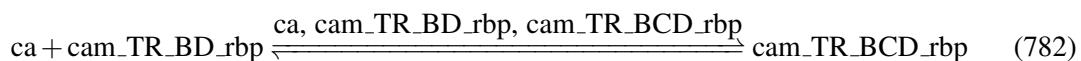
$$v_{364} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_CD_rbp}] - \text{koff_BT} \cdot [\text{cam_TR_BCD_rbp}]) \quad (781)$$

7.365 Reaction ca_binding_to_cam_TR_BD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BD.rbp on site C

Reaction equation



Reactants

Table 1098: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BD_rbp	cam_TR_BD_rbp	

Modifiers

Table 1099: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BD_rbp	cam_TR_BD_rbp	
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Product

Table 1100: Properties of each product.

Id	Name	SBO
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

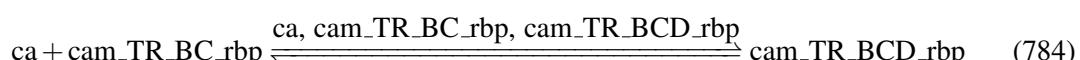
$$v_{365} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_BD_rbp}] - \text{koff_CR} \cdot [\text{cam_TR_BCD_rbp}]) \quad (783)$$

7.366 Reaction ca_binding_to_cam_TR_BC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BC.rbp on site D

Reaction equation



Reactants

Table 1101: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BC_rbp	cam_TR_BC_rbp	

Modifiers

Table 1102: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BC_rbp	cam_TR_BC_rbp	
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Product

Table 1103: Properties of each product.

Id	Name	SBO
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

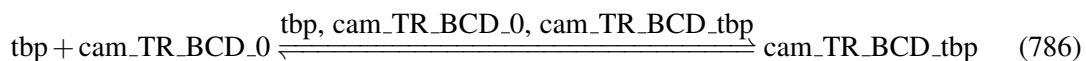
$$v_{366} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_BC_rbp}] - \text{koff_DR} \cdot [\text{cam_TR_BCD_rbp}]) \quad (785)$$

7.367 Reaction tbp_binding_to_cam_TR_BCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_BCD_0

Reaction equation



Reactants

Table 1104: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_BCD_0	cam_TR_BCD_0	

Modifiers

Table 1105: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_BCD_0	cam_TR_BCD_0	
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Product

Table 1106: Properties of each product.

Id	Name	SBO
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

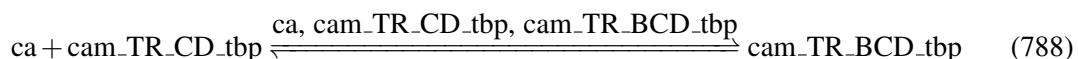
$$v_{367} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_BCD_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_BCD_tbp}]) \quad (787)$$

7.368 Reaction ca_binding_to_cam_TR_CD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_CD_tbp on site B

Reaction equation



Reactants

Table 1107: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_CD_tbp	cam_TR_CD_tbp	

Modifiers

Table 1108: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_CD_tbp	cam_TR_CD_tbp	
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Product

Table 1109: Properties of each product.

Id	Name	SBO
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

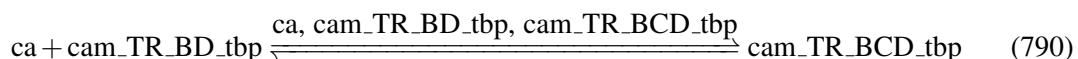
$$v_{368} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_CD_tbp}] - \text{koff_BT} \cdot [\text{cam_TR_BCD_tbp}]) \quad (789)$$

7.369 Reaction ca_binding_to_cam_TR_BD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BD.tbp on site C

Reaction equation



Reactants

Table 1110: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BD_tbp	cam_TR_BD_tbp	

Modifiers

Table 1111: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BD_tbp	cam_TR_BD_tbp	
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Product

Table 1112: Properties of each product.

Id	Name	SBO
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

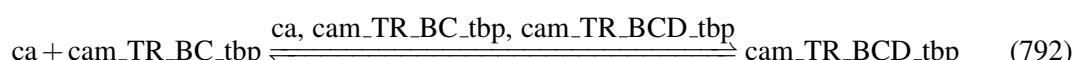
$$v_{369} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_BD_tbp}] - \text{koff_CR} \cdot [\text{cam_TR_BCD_tbp}]) \quad (791)$$

7.370 Reaction ca_binding_to_cam_TR_BC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BC.tbp on site D

Reaction equation



Reactants

Table 1113: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BC_tbp	cam_TR_BC_tbp	

Modifiers

Table 1114: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BC_tbp	cam_TR_BC_tbp	
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Product

Table 1115: Properties of each product.

Id	Name	SBO
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

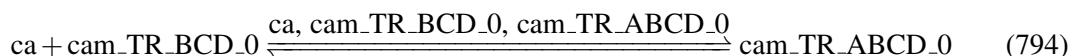
$$v_{370} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_BC_tbp}] - \text{koff_DR} \cdot [\text{cam_TR_BCD_tbp}]) \quad (793)$$

7.371 Reaction ca_binding_to_cam_TR_BCD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.BCD.0 on site A

Reaction equation



Reactants

Table 1116: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BCD_0	cam_TR_BCD_0	

Modifiers

Table 1117: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BCD_0	cam_TR_BCD_0	
cam_TR_ABCD_0	cam_TR_ABCD_0	

Product

Table 1118: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_0	cam_TR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

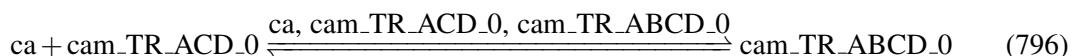
$$v_{371} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BCD_0}] - \text{koff_AT} \cdot [\text{cam_TR_ABCD_0}]) \quad (795)$$

7.372 Reaction ca_binding_to_cam_TR_ACD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.ACD.0 on site B

Reaction equation



Reactants

Table 1119: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ACD_0	cam_TR_ACD_0	

Modifiers

Table 1120: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ACD_0	cam_TR_ACD_0	
cam_TR_ABCD_0	cam_TR_ABCD_0	

Product

Table 1121: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_0	cam_TR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

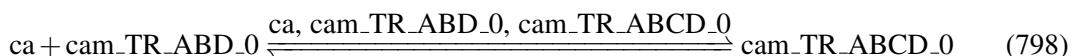
$$v_{372} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_ACD_0}] - \text{koff_BT} \cdot [\text{cam_TR_ABCD_0}]) \quad (797)$$

7.373 Reaction ca_binding_to_cam_TR_ABD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.ABD_0 on site C

Reaction equation



Reactants

Table 1122: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ABD_0	cam_TR_ABD_0	

Modifiers

Table 1123: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ABD_0	cam_TR_ABD_0	
cam_TR_ABCD_0	cam_TR_ABCD_0	

Product

Table 1124: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_0	cam_TR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

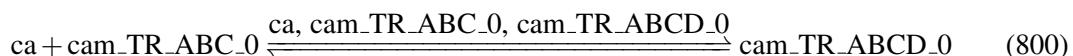
$$v_{373} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_ABD_0}] - \text{koff_CR} \cdot [\text{cam_TR_ABCD_0}]) \quad (799)$$

7.374 Reaction ca_binding_to_cam_TR_ABC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TR.ABC_0 on site D

Reaction equation



Reactants

Table 1125: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ABC_0	cam_TR_ABC_0	

Modifiers

Table 1126: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ABC_0	cam_TR_ABC_0	
cam_TR_ABCD_0	cam_TR_ABCD_0	

Product

Table 1127: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_0	cam_TR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

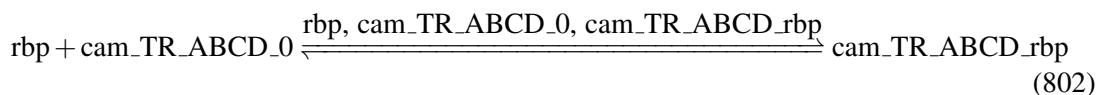
$$v_{374} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_ABC_0}] - \text{koff_DR} \cdot [\text{cam_TR_ABCD_0}]) \quad (801)$$

7.375 Reaction rbp_binding_to_cam_TR_ABCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TR_ABCD_0

Reaction equation



Reactants

Table 1128: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_TR_ABCD_0	cam_TR_ABCD_0	

Modifiers

Table 1129: Properties of each modifier.

Id	Name	SBO
rbp	rpb	
cam_TR_ABCD_0	cam_TR_ABCD_0	
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Product

Table 1130: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

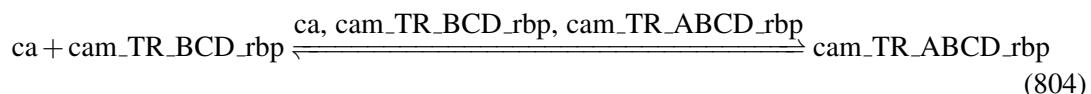
$$v_{375} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TR_ABCD_0}] - \text{koff_rbp_TR} \cdot [\text{cam_TR_ABCD_rbp}]) \quad (803)$$

7.376 Reaction ca_binding_to_cam_TR_BCD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_BCD_rbp on site A

Reaction equation



Reactants

Table 1131: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BCD_rbp	cam_TR_BCD_rbp	

Modifiers

Table 1132: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BCD_rbp	cam_TR_BCD_rbp	
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Product

Table 1133: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

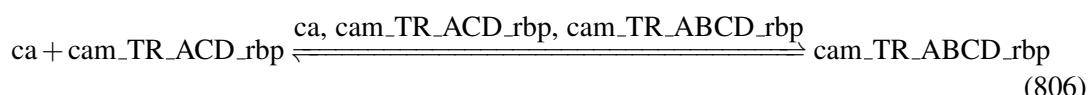
$$v_{376} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BCD_rbp}] - \text{koff_AT} \cdot [\text{cam_TR_ABCD_rbp}]) \quad (805)$$

7.377 Reaction ca_binding_to_cam_TR_ACD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_ACD_rbp on site B

Reaction equation



Reactants

Table 1134: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ACD_rbp	cam_TR_ACD_rbp	

Modifiers

Table 1135: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ACD_rbp	cam_TR_ACD_rbp	
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Product

Table 1136: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

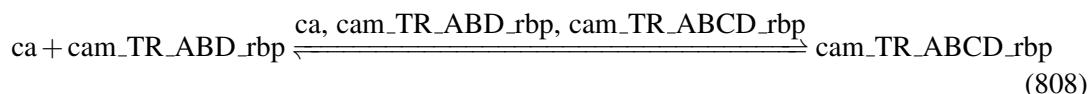
$$v_{377} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_ACD_rbp}] - \text{koff_BT} \cdot [\text{cam_TR_ABCD_rbp}]) \quad (807)$$

7.378 Reaction ca_binding_to_cam_TR_ABD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_ABD_rbp on site C

Reaction equation



Reactants

Table 1137: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ABD_rbp	cam_TR_ABD_rbp	

Modifiers

Table 1138: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ABD_rbp	cam_TR_ABD_rbp	
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Product

Table 1139: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

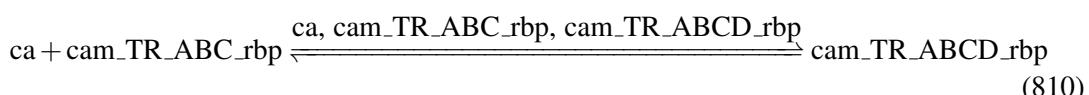
$$v_{378} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_ABD_rbp}] - \text{koff_CR} \cdot [\text{cam_TR_ABCD_rbp}]) \quad (809)$$

7.379 Reaction ca_binding_to_cam_TR_ABC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_ABC_rbp on site D

Reaction equation



Reactants

Table 1140: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ABC_rbp	cam_TR_ABC_rbp	

Modifiers

Table 1141: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ABC_rbp	cam_TR_ABC_rbp	
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Product

Table 1142: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_rbp	cam_TR_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

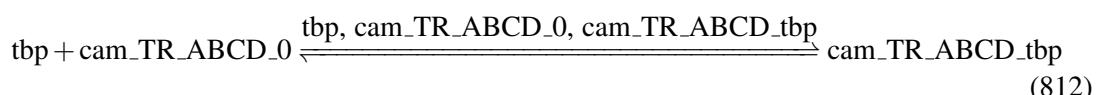
$$v_{379} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_ABC_rbp}] - \text{koff_DR} \cdot [\text{cam_TR_ABCD_rbp}]) \quad (811)$$

7.380 Reaction tbp_binding_to_cam_TR_ABCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TR_ABCD_0

Reaction equation



Reactants

Table 1143: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TR_ABCD_0	cam_TR_ABCD_0	

Modifiers

Table 1144: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TR_ABCD_0	cam_TR_ABCD_0	
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Product

Table 1145: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

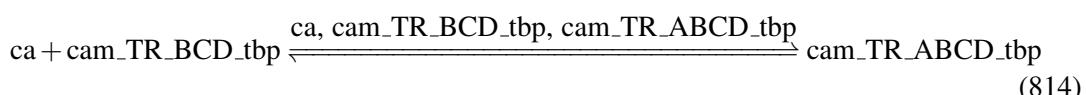
$$v_{380} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TR_ABCD_0}] - \text{koff_tbp_TR} \cdot [\text{cam_TR_ABCD_tbp}]) \quad (813)$$

7.381 Reaction ca_binding_to_cam_TR_BCD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_BCD_tbp on site A

Reaction equation



Reactants

Table 1146: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_BCD_tbp	cam_TR_BCD_tbp	

Modifiers

Table 1147: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_BCD_tbp	cam_TR_BCD_tbp	
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Product

Table 1148: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

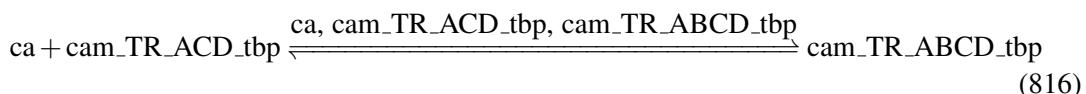
$$v_{381} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TR_BCD_tbp}] - \text{koff_AT} \cdot [\text{cam_TR_ABCD_tbp}]) \quad (815)$$

7.382 Reaction ca_binding_to_cam_TR_ACD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_ACD_tbp on site B

Reaction equation



Reactants

Table 1149: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ACD_tbp	cam_TR_ACD_tbp	

Modifiers

Table 1150: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ACD_tbp	cam_TR_ACD_tbp	
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Product

Table 1151: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

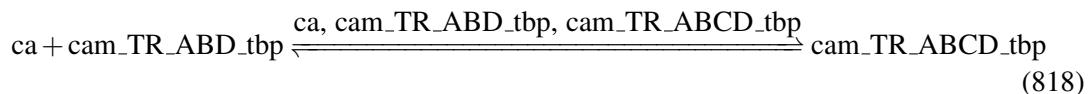
$$v_{382} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TR_ACD_tbp}] - \text{koff_BT} \cdot [\text{cam_TR_ABCD_tbp}]) \quad (817)$$

7.383 Reaction ca_binding_to_cam_TR_ABD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_ABD_tbp on site C

Reaction equation



Reactants

Table 1152: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ABD_tbp	cam_TR_ABD_tbp	

Modifiers

Table 1153: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ABD_tbp	cam_TR_ABD_tbp	
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Product

Table 1154: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

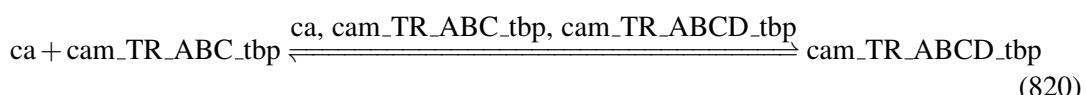
$$v_{383} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CR} \cdot [\text{ca}] \cdot [\text{cam_TR_ABD_tbp}] - \text{koff_CR} \cdot [\text{cam_TR_ABCD_tbp}]) \quad (819)$$

7.384 Reaction ca_binding_to_cam_TR_ABC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TR_ABC_tbp on site D

Reaction equation



Reactants

Table 1155: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TR_ABC_tbp	cam_TR_ABC_tbp	

Modifiers

Table 1156: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TR_ABC_tbp	cam_TR_ABC_tbp	
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Product

Table 1157: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_tbp	cam_TR_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

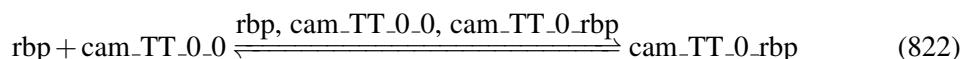
$$v_{384} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DR} \cdot [\text{ca}] \cdot [\text{cam_TR_ABC_tbp}] - \text{koff_DR} \cdot [\text{cam_TR_ABCD_tbp}]) \quad (821)$$

7.385 Reaction rbp_binding_to_cam_TT_0_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_0_0

Reaction equation



Reactants

Table 1158: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_TT_0_0	cam_TT_0_0	

Modifiers

Table 1159: Properties of each modifier.

Id	Name	SBO
rbp	rpb	
cam_TT_0_0	cam_TT_0_0	
cam_TT_0_rbp	cam_TT_0_rbp	

Product

Table 1160: Properties of each product.

Id	Name	SBO
cam_TT_0_rbp	cam_TT_0_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{385} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_0_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_0_rbp}]) \quad (823)$$

7.386 Reaction `tbp_binding_to_cam_TT_0_0`

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name `tbp binding to cam_TT_0_0`

Reaction equation



Reactants

Table 1161: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_0_0	cam_TT_0_0	

Modifiers

Table 1162: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_0_0	cam_TT_0_0	
cam_TT_0_tbp	cam_TT_0_tbp	

Product

Table 1163: Properties of each product.

Id	Name	SBO
cam_TT_0_tbp	cam_TT_0_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{386} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_0_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_0_tbp}]) \quad (825)$$

7.387 Reaction ca_binding_to_cam_TT_0_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_0_0 on site A

Reaction equation



Reactants

Table 1164: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_0	cam_TT_0_0	

Modifiers

Table 1165: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_0	cam_TT_0_0	
cam_TT_A_0	cam_TT_A_0	

Product

Table 1166: Properties of each product.

Id	Name	SBO
cam_TT_A_0	cam_TT_A_0	

Kinetic Law

Derived unit contains undeclared units

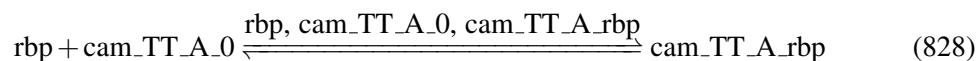
$$v_{387} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_0}] - \text{koff_AT} \cdot [\text{cam_TT_A_0}]) \quad (827)$$

7.388 Reaction rbp_binding_to_cam_TT_A_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_A_0

Reaction equation



Reactants

Table 1167: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TT_A_0	cam_TT_A_0	

Modifiers

Table 1168: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TT_A_0	cam_TT_A_0	
cam_TT_A_rbp	cam_TT_A_rbp	

Product

Table 1169: Properties of each product.

Id	Name	SBO
cam_TT_A_rbp	cam_TT_A_rbp	

Kinetic Law

Derived unit contains undeclared units

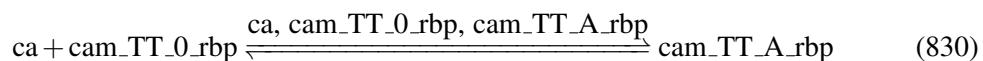
$$v_{388} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_A_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_A_rbp}]) \quad (829)$$

7.389 Reaction ca_binding_to_cam_TT_0_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.0.rbp on site A

Reaction equation



Reactants

Table 1170: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_rbp	cam_TT_0_rbp	

Modifiers

Table 1171: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_rbp	cam_TT_0_rbp	
cam_TT_A_rbp	cam_TT_A_rbp	

Product

Table 1172: Properties of each product.

Id	Name	SBO
cam_TT_A_rbp	cam_TT_A_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{389} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_rbp}] - \text{koff_AT} \cdot [\text{cam_TT_A_rbp}]) \quad (831)$$

7.390 Reaction tbp_binding_to_cam_TT_A_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_A_0

Reaction equation



Reactants

Table 1173: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_A_0	cam_TT_A_0	

Modifiers

Table 1174: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_A_0	cam_TT_A_0	
cam_TT_A_tbp	cam_TT_A_tbp	

Product

Table 1175: Properties of each product.

Id	Name	SBO
cam_TT_A_tbp	cam_TT_A_tbp	

Kinetic Law

Derived unit contains undeclared units

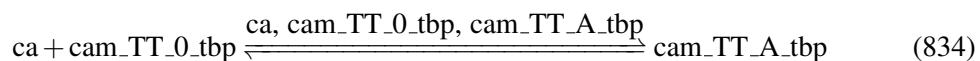
$$v_{390} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_A_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_A_tbp}]) \quad (833)$$

7.391 Reaction ca_binding_to_cam_TT_0_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_0_tbp on site A

Reaction equation



Reactants

Table 1176: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_tbp	cam_TT_0_tbp	

Modifiers

Table 1177: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_tbp	cam_TT_0_tbp	
cam_TT_A_tbp	cam_TT_A_tbp	

Product

Table 1178: Properties of each product.

Id	Name	SBO
cam_TT_A_tbp	cam_TT_A_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{391} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_tbp}] - \text{koff_AT} \cdot [\text{cam_TT_A_tbp}]) \quad (835)$$

7.392 Reaction ca_binding_to_cam_TT_0_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_0_0 on site B

Reaction equation



Reactants

Table 1179: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_O_0	cam_TT_O_0	

Modifiers

Table 1180: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_O_0	cam_TT_O_0	
cam_TT_B_0	cam_TT_B_0	

Product

Table 1181: Properties of each product.

Id	Name	SBO
cam_TT_B_0	cam_TT_B_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{392} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_O_0}] - \text{koff_BT} \cdot [\text{cam_TT_B_0}]) \quad (837)$$

7.393 Reaction rbp_binding_to_cam_TT_B_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_B_0

Reaction equation



Reactants

Table 1182: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_TT_B_0	cam_TT_B_0	

Modifiers

Table 1183: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TT_B_0	cam_TT_B_0	
cam_TT_B_rpb	cam_TT_B_rpb	

Product

Table 1184: Properties of each product.

Id	Name	SBO
cam_TT_B_rpb	cam_TT_B_rpb	

Kinetic Law

Derived unit contains undeclared units

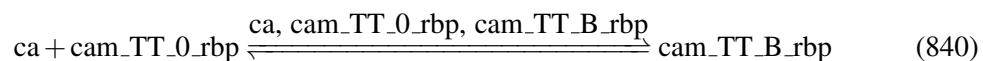
$$v_{393} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_TT_B_0}] - \text{koff_rpb_TT} \cdot [\text{cam_TT_B_rbp}]) \quad (839)$$

7.394 Reaction ca_binding_to_cam_TT_0_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.0.rbp on site B

Reaction equation



Reactants

Table 1185: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_rbp	cam_TT_0_rbp	

Modifiers

Table 1186: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_rbp	cam_TT_0_rbp	
cam_TT_B_rbp	cam_TT_B_rbp	

Product

Table 1187: Properties of each product.

Id	Name	SBO
cam_TT_B_rbp	cam_TT_B_rbp	

Kinetic Law

Derived unit contains undeclared units

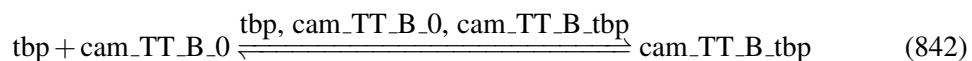
$$v_{394} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_rbp}] - \text{koff_BT} \cdot [\text{cam_TT_B_rbp}]) \quad (841)$$

7.395 Reaction tbp_binding_to_cam_TT_B_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_B_0

Reaction equation



Reactants

Table 1188: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_B_0	cam_TT_B_0	

Modifiers

Table 1189: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_B_0	cam_TT_B_0	
cam_TT_B_tbp	cam_TT_B_tbp	

Product

Table 1190: Properties of each product.

Id	Name	SBO
cam_TT_B_tbp	cam_TT_B_tbp	

Kinetic Law

Derived unit contains undeclared units

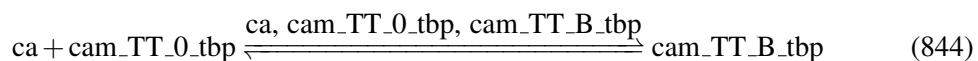
$$v_{395} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_B_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_B_tbp}]) \quad (843)$$

7.396 Reaction ca_binding_to_cam_TT_0_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.0.tbp on site B

Reaction equation



Reactants

Table 1191: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_tbp	cam_TT_0_tbp	

Modifiers

Table 1192: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_tbp	cam_TT_0_tbp	
cam_TT_B_tbp	cam_TT_B_tbp	

Product

Table 1193: Properties of each product.

Id	Name	SBO
cam_TT_B_tbp	cam_TT_B_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{396} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_tbp}] - \text{koff_BT} \cdot [\text{cam_TT_B_tbp}]) \quad (845)$$

7.397 Reaction ca_binding_to_cam_TT_0_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_0_0 on site C

Reaction equation



Reactants

Table 1194: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_0	cam_TT_0_0	

Modifiers

Table 1195: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_0	cam_TT_0_0	
cam_TT_C_0	cam_TT_C_0	

Product

Table 1196: Properties of each product.

Id	Name	SBO
cam_TT_C_0	cam_TT_C_0	

Kinetic Law

Derived unit contains undeclared units

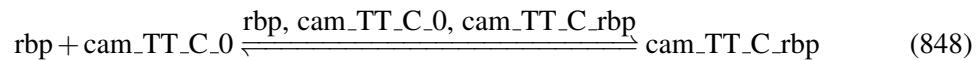
$$v_{397} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_0}] - \text{koff_CT} \cdot [\text{cam_TT_C_0}]) \quad (847)$$

7.398 Reaction rbp_binding_to_cam_TT_C_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_C_0

Reaction equation



Reactants

Table 1197: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_TT_C_0	cam_TT_C_0	

Modifiers

Table 1198: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TT_C_0	cam_TT_C_0	
cam_TT_C_rbp	cam_TT_C_rbp	

Product

Table 1199: Properties of each product.

Id	Name	SBO
cam_TT_C_rbp	cam_TT_C_rbp	

Kinetic Law

Derived unit contains undeclared units

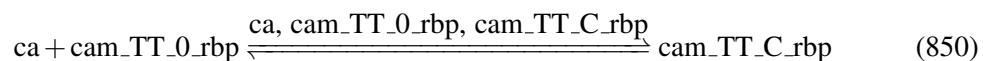
$$v_{398} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_TT_C_0}] - \text{koff_rpb_TT} \cdot [\text{cam_TT_C_rbp}]) \quad (849)$$

7.399 Reaction ca_binding_to_cam_TT_0_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.0.rbp on site C

Reaction equation



Reactants

Table 1200: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_rbp	cam_TT_0_rbp	

Modifiers

Table 1201: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_rbp	cam_TT_0_rbp	
cam_TT_C_rbp	cam_TT_C_rbp	

Product

Table 1202: Properties of each product.

Id	Name	SBO
cam_TT_C_rbp	cam_TT_C_rbp	

Kinetic Law

Derived unit contains undeclared units

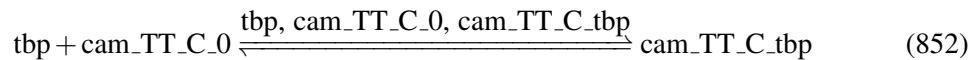
$$v_{399} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_rbp}] - \text{koff_CT} \cdot [\text{cam_TT_C_rbp}]) \quad (851)$$

7.400 Reaction tbp_binding_to_cam_TT_C_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_C_0

Reaction equation



Reactants

Table 1203: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_C_0	cam_TT_C_0	

Modifiers

Table 1204: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_C_0	cam_TT_C_0	
cam_TT_C_tbp	cam_TT_C_tbp	

Product

Table 1205: Properties of each product.

Id	Name	SBO
cam_TT_C_tbp	cam_TT_C_tbp	

Kinetic Law

Derived unit contains undeclared units

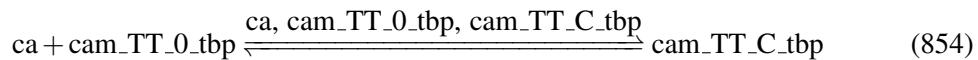
$$\nu_{400} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_C_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_C_tbp}]) \quad (853)$$

7.401 Reaction ca_binding_to_cam_TT_0_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.0.tbp on site C

Reaction equation



Reactants

Table 1206: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_tbp	cam_TT_0_tbp	

Modifiers

Table 1207: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_tbp	cam_TT_0_tbp	
cam_TT_C_tbp	cam_TT_C_tbp	

Product

Table 1208: Properties of each product.

Id	Name	SBO
cam_TT_C_tbp	cam_TT_C_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{401} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_tbp}] - \text{koff_CT} \cdot [\text{cam_TT_C_tbp}]) \quad (855)$$

7.402 Reaction ca_binding_to_cam_TT_0_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_0_0 on site D

Reaction equation



Reactants

Table 1209: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_0	cam_TT_0_0	

Modifiers

Table 1210: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_0	cam_TT_0_0	
cam_TT_D_0	cam_TT_D_0	

Product

Table 1211: Properties of each product.

Id	Name	SBO
cam_TT_D_0	cam_TT_D_0	

Kinetic Law

Derived unit contains undeclared units

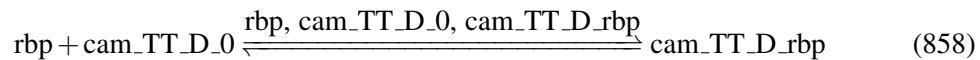
$$v_{402} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_0}] - \text{koff_DT} \cdot [\text{cam_TT_D_0}]) \quad (857)$$

7.403 Reaction rbp_binding_to_cam_TT_D_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_D_0

Reaction equation



Reactants

Table 1212: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TT_D_0	cam_TT_D_0	

Modifiers

Table 1213: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TT_D_0	cam_TT_D_0	
cam_TT_D_rbp	cam_TT_D_rbp	

Product

Table 1214: Properties of each product.

Id	Name	SBO
cam_TT_D_rbp	cam_TT_D_rbp	

Kinetic Law

Derived unit contains undeclared units

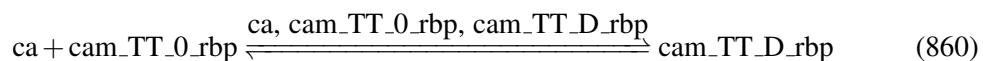
$$v_{403} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_D_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_D_rbp}]) \quad (859)$$

7.404 Reaction ca_binding_to_cam_TT_0_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.0.rbp on site D

Reaction equation



Reactants

Table 1215: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_rbp	cam_TT_0_rbp	

Modifiers

Table 1216: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_rbp	cam_TT_0_rbp	
cam_TT_D_rbp	cam_TT_D_rbp	

Product

Table 1217: Properties of each product.

Id	Name	SBO
cam_TT_D_rbp	cam_TT_D_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{404} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_rbp}] - \text{koff_DT} \cdot [\text{cam_TT_D_rbp}]) \quad (861)$$

7.405 Reaction tbp_binding_to_cam_TT_D_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_D_0

Reaction equation



Reactants

Table 1218: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_D_0	cam_TT_D_0	

Modifiers

Table 1219: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_D_0	cam_TT_D_0	
cam_TT_D_tbp	cam_TT_D_tbp	

Product

Table 1220: Properties of each product.

Id	Name	SBO
cam_TT_D_tbp	cam_TT_D_tbp	

Kinetic Law

Derived unit contains undeclared units

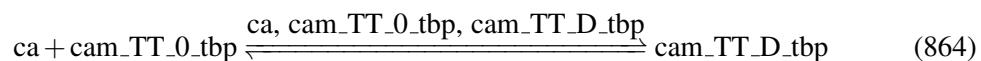
$$v_{405} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_D_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_D_tbp}]) \quad (863)$$

7.406 Reaction ca_binding_to_cam_TT_0_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.0.tbp on site D

Reaction equation



Reactants

Table 1221: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_0_tbp	cam_TT_0_tbp	

Modifiers

Table 1222: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_0_tbp	cam_TT_0_tbp	
cam_TT_D_tbp	cam_TT_D_tbp	

Product

Table 1223: Properties of each product.

Id	Name	SBO
cam_TT_D_tbp	cam_TT_D_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{406} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_0_tbp}] - \text{koff_DT} \cdot [\text{cam_TT_D_tbp}]) \quad (865)$$

7.407 Reaction ca_binding_to_cam_TT_B_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.B_0 on site A

Reaction equation



Reactants

Table 1224: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_0	cam_TT_B_0	

Modifiers

Table 1225: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_0	cam_TT_B_0	
cam_TT_AB_0	cam_TT_AB_0	

Product

Table 1226: Properties of each product.

Id	Name	SBO
cam_TT_AB_0	cam_TT_AB_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{407} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_0}] - \text{koff_AT} \cdot [\text{cam_TT_AB_0}]) \quad (867)$$

7.408 Reaction ca_binding_to_cam_TT_A_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_0 on site B

Reaction equation



Reactants

Table 1227: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_0	cam_TT_A_0	

Modifiers

Table 1228: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_0	cam_TT_A_0	
cam_TT_AB_0	cam_TT_AB_0	

Product

Table 1229: Properties of each product.

Id	Name	SBO
cam_TT_AB_0	cam_TT_AB_0	

Kinetic Law

Derived unit contains undeclared units

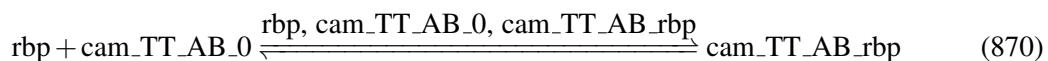
$$v_{408} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_0}] - \text{koff_BT} \cdot [\text{cam_TT_AB_0}]) \quad (869)$$

7.409 Reaction rbp_binding_to_cam_TT_AB_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_AB_0

Reaction equation



Reactants

Table 1230: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TT_AB_0	cam_TT_AB_0	

Modifiers

Table 1231: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TT_AB_0	cam_TT_AB_0	
cam_TT_AB_rbp	cam_TT_AB_rbp	

Product

Table 1232: Properties of each product.

Id	Name	SBO
cam_TT_AB_rbp	cam_TT_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{409} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_AB_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_AB_rbp}]) \quad (871)$$

7.410 Reaction ca_binding_to_cam_TT_B_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.B.rbp on site A

Reaction equation



Reactants

Table 1233: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_rbp	cam_TT_B_rbp	

Modifiers

Table 1234: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_rbp	cam_TT_B_rbp	
cam_TT_AB_rbp	cam_TT_AB_rbp	

Product

Table 1235: Properties of each product.

Id	Name	SBO
cam_TT_AB_rbp	cam_TT_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

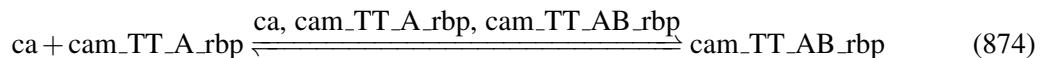
$$v_{410} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_rbp}] - \text{koff_AT} \cdot [\text{cam_TT_AB_rbp}]) \quad (873)$$

7.411 Reaction ca_binding_to_cam_TT_A_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_rbp on site B

Reaction equation



Reactants

Table 1236: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_rbp	cam_TT_A_rbp	

Modifiers

Table 1237: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_rbp	cam_TT_A_rbp	
cam_TT_AB_rbp	cam_TT_AB_rbp	

Product

Table 1238: Properties of each product.

Id	Name	SBO
cam_TT_AB_rbp	cam_TT_AB_rbp	

Kinetic Law

Derived unit contains undeclared units

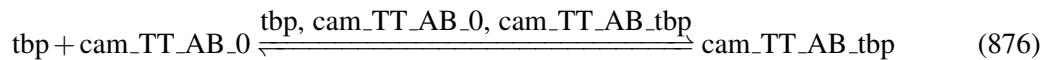
$$v_{411} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_rbp}] - \text{koff_BT} \cdot [\text{cam_TT_AB_rbp}]) \quad (875)$$

7.412 Reaction tbp_binding_to_cam_TT_AB_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_AB_0

Reaction equation



Reactants

Table 1239: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_AB_0	cam_TT_AB_0	

Modifiers

Table 1240: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_AB_0	cam_TT_AB_0	
cam_TT_AB_tbp	cam_TT_AB_tbp	

Product

Table 1241: Properties of each product.

Id	Name	SBO
cam_TT_AB_tbp	cam_TT_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

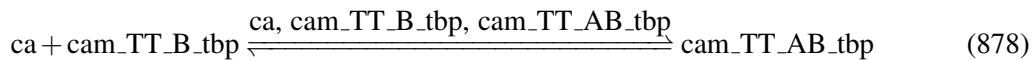
$$v_{412} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_AB_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_AB_tbp}]) \quad (877)$$

7.413 Reaction ca_binding_to_cam_TT_B_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.B.tbp on site A

Reaction equation



Reactants

Table 1242: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_tbp	cam_TT_B_tbp	

Modifiers

Table 1243: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_tbp	cam_TT_B_tbp	
cam_TT_AB_tbp	cam_TT_AB_tbp	

Product

Table 1244: Properties of each product.

Id	Name	SBO
cam_TT_AB_tbp	cam_TT_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

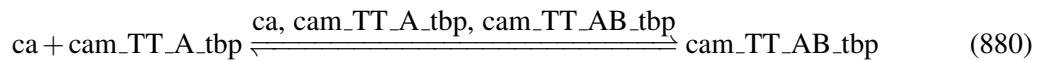
$$v_{413} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_tbp}] - \text{koff_AT} \cdot [\text{cam_TT_AB_tbp}]) \quad (879)$$

7.414 Reaction ca_binding_to_cam_TT_A_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_tbp on site B

Reaction equation



Reactants

Table 1245: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_tbp	cam_TT_A_tbp	

Modifiers

Table 1246: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_tbp	cam_TT_A_tbp	
cam_TT_AB_tbp	cam_TT_AB_tbp	

Product

Table 1247: Properties of each product.

Id	Name	SBO
cam_TT_AB_tbp	cam_TT_AB_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{414} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_tbp}] - \text{koff_BT} \cdot [\text{cam_TT_AB_tbp}]) \quad (881)$$

7.415 Reaction ca_binding_to_cam_TT_C_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_C_0 on site A

Reaction equation



Reactants

Table 1248: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_0	cam_TT_C_0	

Modifiers

Table 1249: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_0	cam_TT_C_0	
cam_TT_AC_0	cam_TT_AC_0	

Product

Table 1250: Properties of each product.

Id	Name	SBO
cam_TT_AC_0	cam_TT_AC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{415} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_0}] - \text{koff_AT} \cdot [\text{cam_TT_AC_0}]) \quad (883)$$

7.416 Reaction ca_binding_to_cam_TT_A_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_0 on site C

Reaction equation



Reactants

Table 1251: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_0	cam_TT_A_0	

Modifiers

Table 1252: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_0	cam_TT_A_0	
cam_TT_AC_0	cam_TT_AC_0	

Product

Table 1253: Properties of each product.

Id	Name	SBO
cam_TT_AC_0	cam_TT_AC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{416} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_0}] - \text{koff_CT} \cdot [\text{cam_TT_AC_0}]) \quad (885)$$

7.417 Reaction rbp_binding_to_cam_TT_AC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_AC_0

Reaction equation



Reactants

Table 1254: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TT_AC_0	cam_TT_AC_0	

Modifiers

Table 1255: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TT_AC_0	cam_TT_AC_0	
cam_TT_AC_rbp	cam_TT_AC_rbp	

Product

Table 1256: Properties of each product.

Id	Name	SBO
cam_TT_AC_rbp	cam_TT_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{417} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_AC_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_AC_rbp}]) \quad (887)$$

7.418 Reaction ca_binding_to_cam_TT_C_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.C.rbp on site A

Reaction equation



Reactants

Table 1257: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_rbp	cam_TT_C_rbp	

Modifiers

Table 1258: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_rbp	cam_TT_C_rbp	
cam_TT_AC_rbp	cam_TT_AC_rbp	

Product

Table 1259: Properties of each product.

Id	Name	SBO
cam_TT_AC_rbp	cam_TT_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{418} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_rbp}] - \text{koff_AT} \cdot [\text{cam_TT_AC_rbp}]) \quad (889)$$

7.419 Reaction ca_binding_to_cam_TT_A_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_rbp on site C

Reaction equation



Reactants

Table 1260: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_rbp	cam_TT_A_rbp	

Modifiers

Table 1261: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_rbp	cam_TT_A_rbp	
cam_TT_AC_rbp	cam_TT_AC_rbp	

Product

Table 1262: Properties of each product.

Id	Name	SBO
cam_TT_AC_rbp	cam_TT_AC_rbp	

Kinetic Law

Derived unit contains undeclared units

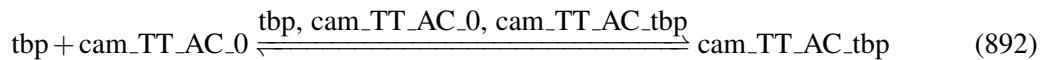
$$v_{419} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_rbp}] - \text{koff_CT} \cdot [\text{cam_TT_AC_rbp}]) \quad (891)$$

7.420 Reaction tbp_binding_to_cam_TT_AC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_AC_0

Reaction equation



Reactants

Table 1263: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_AC_0	cam_TT_AC_0	

Modifiers

Table 1264: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_AC_0	cam_TT_AC_0	
cam_TT_AC_tbp	cam_TT_AC_tbp	

Product

Table 1265: Properties of each product.

Id	Name	SBO
cam_TT_AC_tbp	cam_TT_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{420} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_AC_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_AC_tbp}]) \quad (893)$$

7.421 Reaction ca_binding_to_cam_TT_C_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.C.tbp on site A

Reaction equation



Reactants

Table 1266: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_tbp	cam_TT_C_tbp	

Modifiers

Table 1267: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_tbp	cam_TT_C_tbp	
cam_TT_AC_tbp	cam_TT_AC_tbp	

Product

Table 1268: Properties of each product.

Id	Name	SBO
cam_TT_AC_tbp	cam_TT_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

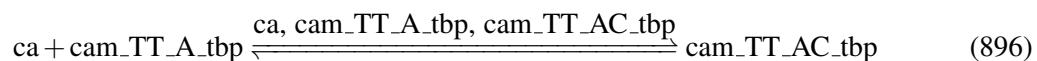
$$v_{421} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_tbp}] - \text{koff_AT} \cdot [\text{cam_TT_AC_tbp}]) \quad (895)$$

7.422 Reaction ca_binding_to_cam_TT_A_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_tbp on site C

Reaction equation



Reactants

Table 1269: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_tbp	cam_TT_A_tbp	

Modifiers

Table 1270: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_tbp	cam_TT_A_tbp	
cam_TT_AC_tbp	cam_TT_AC_tbp	

Product

Table 1271: Properties of each product.

Id	Name	SBO
cam_TT_AC_tbp	cam_TT_AC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{422} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_tbp}] - \text{koff_CT} \cdot [\text{cam_TT_AC_tbp}]) \quad (897)$$

7.423 Reaction ca_binding_to_cam_TT_D_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_D_0 on site A

Reaction equation



Reactants

Table 1272: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_0	cam_TT_D_0	

Modifiers

Table 1273: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_0	cam_TT_D_0	
cam_TT_AD_0	cam_TT_AD_0	

Product

Table 1274: Properties of each product.

Id	Name	SBO
cam_TT_AD_0	cam_TT_AD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{423} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_0}] - \text{koff_AT} \cdot [\text{cam_TT_AD_0}]) \quad (899)$$

7.424 Reaction ca_binding_to_cam_TT_A_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_0 on site D

Reaction equation



Reactants

Table 1275: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_0	cam_TT_A_0	

Modifiers

Table 1276: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_0	cam_TT_A_0	
cam_TT_AD_0	cam_TT_AD_0	

Product

Table 1277: Properties of each product.

Id	Name	SBO
cam_TT_AD_0	cam_TT_AD_0	

Kinetic Law

Derived unit contains undeclared units

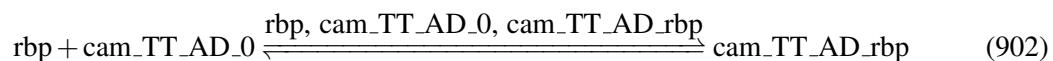
$$v_{424} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_0}] - \text{koff_DT} \cdot [\text{cam_TT_AD_0}]) \quad (901)$$

7.425 Reaction rbp_binding_to_cam_TT_AD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_AD_0

Reaction equation



Reactants

Table 1278: Properties of each reactant.

Id	Name	SBO
rpb	rpb	
cam_TT_AD_0	cam_TT_AD_0	

Modifiers

Table 1279: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TT_AD_0	cam_TT_AD_0	
cam_TT_AD_rbp	cam_TT_AD_rbp	

Product

Table 1280: Properties of each product.

Id	Name	SBO
cam_TT_AD_rbp	cam_TT_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{425} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rpb} \cdot [\text{rpb}] \cdot [\text{cam_TT_AD_0}] - \text{koff_rpb_TT} \cdot [\text{cam_TT_AD_rbp}]) \quad (903)$$

7.426 Reaction ca_binding_to_cam_TT_D_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.D.rbp on site A

Reaction equation



Reactants

Table 1281: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_rbp	cam_TT_D_rbp	

Modifiers

Table 1282: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_rbp	cam_TT_D_rbp	
cam_TT_AD_rbp	cam_TT_AD_rbp	

Product

Table 1283: Properties of each product.

Id	Name	SBO
cam_TT_AD_rbp	cam_TT_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{426} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_rbp}] - \text{koff_AT} \cdot [\text{cam_TT_AD_rbp}]) \quad (905)$$

7.427 Reaction ca_binding_to_cam_TT_A_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_rbp on site D

Reaction equation



Reactants

Table 1284: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_rbp	cam_TT_A_rbp	

Modifiers

Table 1285: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_rbp	cam_TT_A_rbp	
cam_TT_AD_rbp	cam_TT_AD_rbp	

Product

Table 1286: Properties of each product.

Id	Name	SBO
cam_TT_AD_rbp	cam_TT_AD_rbp	

Kinetic Law

Derived unit contains undeclared units

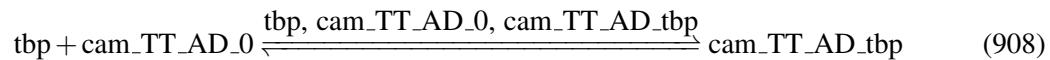
$$v_{427} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_rbp}] - \text{koff_DT} \cdot [\text{cam_TT_AD_rbp}]) \quad (907)$$

7.428 Reaction tbp_binding_to_cam_TT_AD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_AD_0

Reaction equation



Reactants

Table 1287: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_AD_0	cam_TT_AD_0	

Modifiers

Table 1288: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_AD_0	cam_TT_AD_0	
cam_TT_AD_tbp	cam_TT_AD_tbp	

Product

Table 1289: Properties of each product.

Id	Name	SBO
cam_TT_AD_tbp	cam_TT_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{428} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_AD_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_AD_tbp}]) \quad (909)$$

7.429 Reaction ca_binding_to_cam_TT_D_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.D.tbp on site A

Reaction equation



Reactants

Table 1290: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_tbp	cam_TT_D_tbp	

Modifiers

Table 1291: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_tbp	cam_TT_D_tbp	
cam_TT_AD_tbp	cam_TT_AD_tbp	

Product

Table 1292: Properties of each product.

Id	Name	SBO
cam_TT_AD_tbp	cam_TT_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{429} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_tbp}] - \text{koff_AT} \cdot [\text{cam_TT_AD_tbp}]) \quad (911)$$

7.430 Reaction ca_binding_to_cam_TT_A_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_A_tbp on site D

Reaction equation



Reactants

Table 1293: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_A_tbp	cam_TT_A_tbp	

Modifiers

Table 1294: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_A_tbp	cam_TT_A_tbp	
cam_TT_AD_tbp	cam_TT_AD_tbp	

Product

Table 1295: Properties of each product.

Id	Name	SBO
cam_TT_AD_tbp	cam_TT_AD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{430} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_A_tbp}] - \text{koff_DT} \cdot [\text{cam_TT_AD_tbp}]) \quad (913)$$

7.431 Reaction ca_binding_to_cam_TT_C_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_C_0 on site B

Reaction equation



Reactants

Table 1296: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_0	cam_TT_C_0	

Modifiers

Table 1297: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_0	cam_TT_C_0	
cam_TT_BC_0	cam_TT_BC_0	

Product

Table 1298: Properties of each product.

Id	Name	SBO
cam_TT_BC_0	cam_TT_BC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{431} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_0}] - \text{koff_BT} \cdot [\text{cam_TT_BC_0}]) \quad (915)$$

7.432 Reaction ca_binding_to_cam_TT_B_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_B_0 on site C

Reaction equation



Reactants

Table 1299: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_0	cam_TT_B_0	

Modifiers

Table 1300: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_0	cam_TT_B_0	
cam_TT_BC_0	cam_TT_BC_0	

Product

Table 1301: Properties of each product.

Id	Name	SBO
cam_TT_BC_0	cam_TT_BC_0	

Kinetic Law

Derived unit contains undeclared units

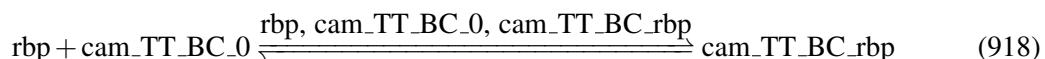
$$v_{432} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_0}] - \text{koff_CT} \cdot [\text{cam_TT_BC_0}]) \quad (917)$$

7.433 Reaction rbp_binding_to_cam_TT_BC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_BC_0

Reaction equation



Reactants

Table 1302: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TT_BC_0	cam_TT_BC_0	

Modifiers

Table 1303: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TT_BC_0	cam_TT_BC_0	
cam_TT_BC_rbp	cam_TT_BC_rbp	

Product

Table 1304: Properties of each product.

Id	Name	SBO
cam_TT_BC_rbp	cam_TT_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

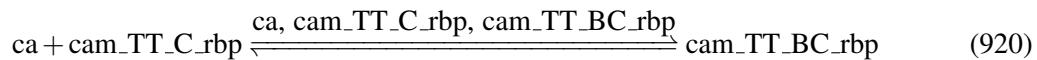
$$v_{433} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_BC_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_BC_rbp}]) \quad (919)$$

7.434 Reaction ca_binding_to_cam_TT_C_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.C.rbp on site B

Reaction equation



Reactants

Table 1305: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_rbp	cam_TT_C_rbp	

Modifiers

Table 1306: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_rbp	cam_TT_C_rbp	
cam_TT_BC_rbp	cam_TT_BC_rbp	

Product

Table 1307: Properties of each product.

Id	Name	SBO
cam_TT_BC_rbp	cam_TT_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{434} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_rbp}] - \text{koff_BT} \cdot [\text{cam_TT_BC_rbp}]) \quad (921)$$

7.435 Reaction ca_binding_to_cam_TT_B_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.B.rbp on site C

Reaction equation



Reactants

Table 1308: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_rbp	cam_TT_B_rbp	

Modifiers

Table 1309: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_rbp	cam_TT_B_rbp	
cam_TT_BC_rbp	cam_TT_BC_rbp	

Product

Table 1310: Properties of each product.

Id	Name	SBO
cam_TT_BC_rbp	cam_TT_BC_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{435} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_rbp}] - \text{koff_CT} \cdot [\text{cam_TT_BC_rbp}]) \quad (923)$$

7.436 Reaction tbp_binding_to_cam_TT_BC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_BC_0

Reaction equation



Reactants

Table 1311: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_BC_0	cam_TT_BC_0	

Modifiers

Table 1312: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_BC_0	cam_TT_BC_0	
cam_TT_BC_tbp	cam_TT_BC_tbp	

Product

Table 1313: Properties of each product.

Id	Name	SBO
cam_TT_BC_tbp	cam_TT_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

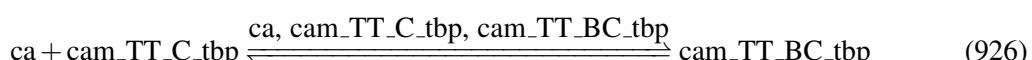
$$v_{436} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_BC_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_BC_tbp}]) \quad (925)$$

7.437 Reaction ca_binding_to_cam_TT_C_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.C.tbp on site B

Reaction equation



Reactants

Table 1314: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_tbp	cam_TT_C_tbp	

Modifiers

Table 1315: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_tbp	cam_TT_C_tbp	
cam_TT_BC_tbp	cam_TT_BC_tbp	

Product

Table 1316: Properties of each product.

Id	Name	SBO
cam_TT_BC_tbp	cam_TT_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

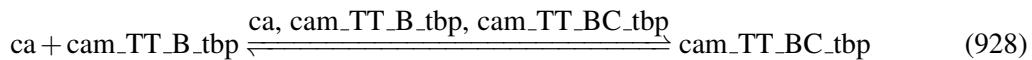
$$\nu_{437} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_tbp}] - \text{koff_BT} \cdot [\text{cam_TT_BC_tbp}]) \quad (927)$$

7.438 Reaction ca_binding_to_cam_TT_B_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.B.tbp on site C

Reaction equation



Reactants

Table 1317: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_tbp	cam_TT_B_tbp	

Modifiers

Table 1318: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_tbp	cam_TT_B_tbp	
cam_TT_BC_tbp	cam_TT_BC_tbp	

Product

Table 1319: Properties of each product.

Id	Name	SBO
cam_TT_BC_tbp	cam_TT_BC_tbp	

Kinetic Law

Derived unit contains undeclared units

$$\nu_{438} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_tbp}] - \text{koff_CT} \cdot [\text{cam_TT_BC_tbp}]) \quad (929)$$

7.439 Reaction ca_binding_to_cam_TT_D_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_D_0 on site B

Reaction equation



Reactants

Table 1320: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_0	cam_TT_D_0	

Modifiers

Table 1321: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_0	cam_TT_D_0	
cam_TT_BD_0	cam_TT_BD_0	

Product

Table 1322: Properties of each product.

Id	Name	SBO
cam_TT_BD_0	cam_TT_BD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{439} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_0}] - \text{koff_BT} \cdot [\text{cam_TT_BD_0}]) \quad (931)$$

7.440 Reaction ca_binding_to_cam_TT_B_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.B_0 on site D

Reaction equation



Reactants

Table 1323: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_0	cam_TT_B_0	

Modifiers

Table 1324: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_0	cam_TT_B_0	
cam_TT_BD_0	cam_TT_BD_0	

Product

Table 1325: Properties of each product.

Id	Name	SBO
cam_TT_BD_0	cam_TT_BD_0	

Kinetic Law

Derived unit contains undeclared units

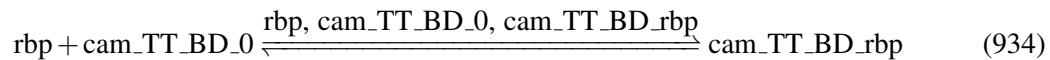
$$v_{440} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_0}] - \text{koff_DT} \cdot [\text{cam_TT_BD_0}]) \quad (933)$$

7.441 Reaction rbp_binding_to_cam_TT_BD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_BD_0

Reaction equation



Reactants

Table 1326: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TT_BD_0	cam_TT_BD_0	

Modifiers

Table 1327: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TT_BD_0	cam_TT_BD_0	
cam_TT_BD_rbp	cam_TT_BD_rbp	

Product

Table 1328: Properties of each product.

Id	Name	SBO
cam_TT_BD_rbp	cam_TT_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

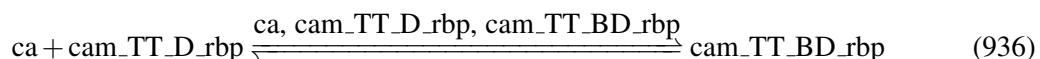
$$v_{441} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_BD_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_BD_rbp}]) \quad (935)$$

7.442 Reaction ca_binding_to_cam_TT_D_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.D.rbp on site B

Reaction equation



Reactants

Table 1329: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_rbp	cam_TT_D_rbp	

Modifiers

Table 1330: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_rbp	cam_TT_D_rbp	
cam_TT_BD_rbp	cam_TT_BD_rbp	

Product

Table 1331: Properties of each product.

Id	Name	SBO
cam_TT_BD_rbp	cam_TT_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{442} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_rbp}] - \text{koff_BT} \cdot [\text{cam_TT_BD_rbp}]) \quad (937)$$

7.443 Reaction ca_binding_to_cam_TT_B_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.B.rbp on site D

Reaction equation



Reactants

Table 1332: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_rbp	cam_TT_B_rbp	

Modifiers

Table 1333: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_rbp	cam_TT_B_rbp	
cam_TT_BD_rbp	cam_TT_BD_rbp	

Product

Table 1334: Properties of each product.

Id	Name	SBO
cam_TT_BD_rbp	cam_TT_BD_rbp	

Kinetic Law

Derived unit contains undeclared units

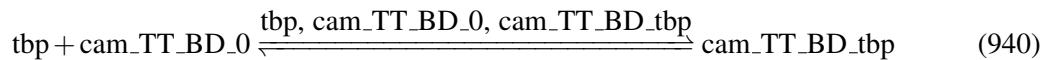
$$v_{443} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_rbp}] - \text{koff_DT} \cdot [\text{cam_TT_BD_rbp}]) \quad (939)$$

7.444 Reaction tbp_binding_to_cam_TT_BD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_BD_0

Reaction equation



Reactants

Table 1335: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_BD_0	cam_TT_BD_0	

Modifiers

Table 1336: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_BD_0	cam_TT_BD_0	
cam_TT_BD_tbp	cam_TT_BD_tbp	

Product

Table 1337: Properties of each product.

Id	Name	SBO
cam_TT_BD_tbp	cam_TT_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{444} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_BD_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_BD_tbp}]) \quad (941)$$

7.445 Reaction ca_binding_to_cam_TT_D_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.D.tbp on site B

Reaction equation



Reactants

Table 1338: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_tbp	cam_TT_D_tbp	

Modifiers

Table 1339: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_tbp	cam_TT_D_tbp	
cam_TT_BD_tbp	cam_TT_BD_tbp	

Product

Table 1340: Properties of each product.

Id	Name	SBO
cam_TT_BD_tbp	cam_TT_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{445} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_tbp}] - \text{koff_BT} \cdot [\text{cam_TT_BD_tbp}]) \quad (943)$$

7.446 Reaction ca_binding_to_cam_TT_B_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.B.tbp on site D

Reaction equation



Reactants

Table 1341: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_B_tbp	cam_TT_B_tbp	

Modifiers

Table 1342: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_B_tbp	cam_TT_B_tbp	
cam_TT_BD_tbp	cam_TT_BD_tbp	

Product

Table 1343: Properties of each product.

Id	Name	SBO
cam_TT_BD_tbp	cam_TT_BD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{446} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_B_tbp}] - \text{koff_DT} \cdot [\text{cam_TT_BD_tbp}]) \quad (945)$$

7.447 Reaction ca_binding_to_cam_TT_D_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.D.0 on site C

Reaction equation



Reactants

Table 1344: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_0	cam_TT_D_0	

Modifiers

Table 1345: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_0	cam_TT_D_0	
cam_TT_CD_0	cam_TT_CD_0	

Product

Table 1346: Properties of each product.

Id	Name	SBO
cam_TT_CD_0	cam_TT_CD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{447} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_0}] - \text{koff_CT} \cdot [\text{cam_TT_CD_0}]) \quad (947)$$

7.448 Reaction ca_binding_to_cam_TT_C_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_C_0 on site D

Reaction equation



Reactants

Table 1347: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_0	cam_TT_C_0	

Modifiers

Table 1348: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_0	cam_TT_C_0	
cam_TT_CD_0	cam_TT_CD_0	

Product

Table 1349: Properties of each product.

Id	Name	SBO
cam_TT_CD_0	cam_TT_CD_0	

Kinetic Law

Derived unit contains undeclared units

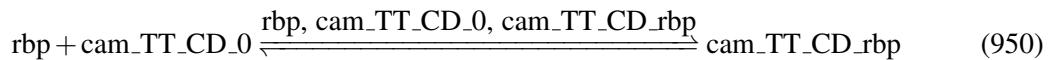
$$v_{448} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_0}] - \text{koff_DT} \cdot [\text{cam_TT_CD_0}]) \quad (949)$$

7.449 Reaction rbp_binding_to_cam_TT_CD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_CD_0

Reaction equation



Reactants

Table 1350: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TT_CD_0	cam_TT_CD_0	

Modifiers

Table 1351: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TT_CD_0	cam_TT_CD_0	
cam_TT_CD_rbp	cam_TT_CD_rbp	

Product

Table 1352: Properties of each product.

Id	Name	SBO
cam_TT_CD_rbp	cam_TT_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

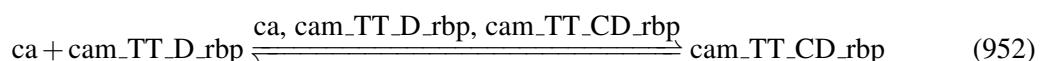
$$v_{449} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_CD_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_CD_rbp}]) \quad (951)$$

7.450 Reaction ca_binding_to_cam_TT_D_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.D.rbp on site C

Reaction equation



Reactants

Table 1353: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_rbp	cam_TT_D_rbp	

Modifiers

Table 1354: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_rbp	cam_TT_D_rbp	
cam_TT_CD_rbp	cam_TT_CD_rbp	

Product

Table 1355: Properties of each product.

Id	Name	SBO
cam_TT_CD_rbp	cam_TT_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{450} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_rbp}] - \text{koff_CT} \cdot [\text{cam_TT_CD_rbp}]) \quad (953)$$

7.451 Reaction ca_binding_to_cam_TT_C_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_C_rbp on site D

Reaction equation



Reactants

Table 1356: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_rbp	cam_TT_C_rbp	

Modifiers

Table 1357: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_rbp	cam_TT_C_rbp	
cam_TT_CD_rbp	cam_TT_CD_rbp	

Product

Table 1358: Properties of each product.

Id	Name	SBO
cam_TT_CD_rbp	cam_TT_CD_rbp	

Kinetic Law

Derived unit contains undeclared units

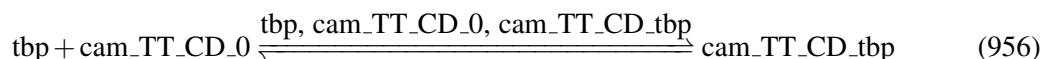
$$v_{451} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_rbp}] - \text{koff_DT} \cdot [\text{cam_TT_CD_rbp}]) \quad (955)$$

7.452 Reaction tbp_binding_to_cam_TT_CD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_CD_0

Reaction equation



Reactants

Table 1359: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_CD_0	cam_TT_CD_0	

Modifiers

Table 1360: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_CD_0	cam_TT_CD_0	
cam_TT_CD_tbp	cam_TT_CD_tbp	

Product

Table 1361: Properties of each product.

Id	Name	SBO
cam_TT_CD_tbp	cam_TT_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

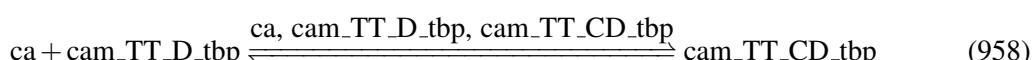
$$v_{452} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_CD_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_CD_tbp}]) \quad (957)$$

7.453 Reaction ca_binding_to_cam_TT_D_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.D.tbp on site C

Reaction equation



Reactants

Table 1362: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_D_tbp	cam_TT_D_tbp	

Modifiers

Table 1363: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_D_tbp	cam_TT_D_tbp	
cam_TT_CD_tbp	cam_TT_CD_tbp	

Product

Table 1364: Properties of each product.

Id	Name	SBO
cam_TT_CD_tbp	cam_TT_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{453} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_D_tbp}] - \text{koff_CT} \cdot [\text{cam_TT_CD_tbp}]) \quad (959)$$

7.454 Reaction ca_binding_to_cam_TT_C_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.C.tbp on site D

Reaction equation



Reactants

Table 1365: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_C_tbp	cam_TT_C_tbp	

Modifiers

Table 1366: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_C_tbp	cam_TT_C_tbp	
cam_TT_CD_tbp	cam_TT_CD_tbp	

Product

Table 1367: Properties of each product.

Id	Name	SBO
cam_TT_CD_tbp	cam_TT_CD_tbp	

Kinetic Law

Derived unit contains undeclared units

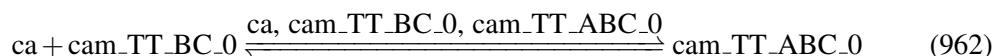
$$v_{454} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_C_tbp}] - \text{koff_DT} \cdot [\text{cam_TT_CD_tbp}]) \quad (961)$$

7.455 Reaction ca_binding_to_cam_TT_BC_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.BC.0 on site A

Reaction equation



Reactants

Table 1368: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BC_0	cam_TT_BC_0	

Modifiers

Table 1369: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BC_0	cam_TT_BC_0	
cam_TT_ABC_0	cam_TT_ABC_0	

Product

Table 1370: Properties of each product.

Id	Name	SBO
cam_TT_ABC_0	cam_TT_ABC_0	

Kinetic Law

Derived unit contains undeclared units

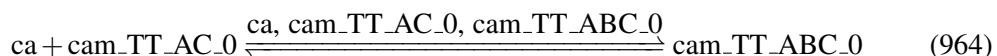
$$v_{455} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BC_0}] - \text{koff_AT} \cdot [\text{cam_TT_ABC_0}]) \quad (963)$$

7.456 Reaction ca_binding_to_cam_TT_AC_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AC_0 on site B

Reaction equation



Reactants

Table 1371: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AC_0	cam_TT_AC_0	

Modifiers

Table 1372: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AC_0	cam_TT_AC_0	
cam_TT_ABC_0	cam_TT_ABC_0	

Product

Table 1373: Properties of each product.

Id	Name	SBO
cam_TT_ABC_0	cam_TT_ABC_0	

Kinetic Law

Derived unit contains undeclared units

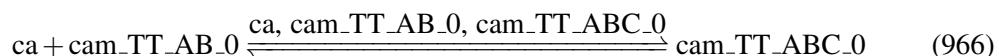
$$v_{456} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_AC_0}] - \text{koff_BT} \cdot [\text{cam_TT_ABC_0}]) \quad (965)$$

7.457 Reaction ca_binding_to_cam_TT_AB_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AB_0 on site C

Reaction equation



Reactants

Table 1374: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AB_0	cam_TT_AB_0	

Modifiers

Table 1375: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AB_0	cam_TT_AB_0	
cam_TT_ABC_0	cam_TT_ABC_0	

Product

Table 1376: Properties of each product.

Id	Name	SBO
cam_TT_ABC_0	cam_TT_ABC_0	

Kinetic Law

Derived unit contains undeclared units

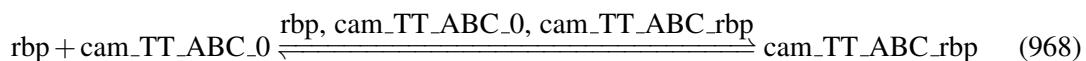
$$v_{457} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_AB_0}] - \text{koff_CT} \cdot [\text{cam_TT_ABC_0}]) \quad (967)$$

7.458 Reaction rbp_binding_to_cam_TT_ABC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_ABC_0

Reaction equation



Reactants

Table 1377: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_TT_ABC_0	cam_TT_ABC_0	

Modifiers

Table 1378: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TT_ABC_0	cam_TT_ABC_0	
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Product

Table 1379: Properties of each product.

Id	Name	SBO
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

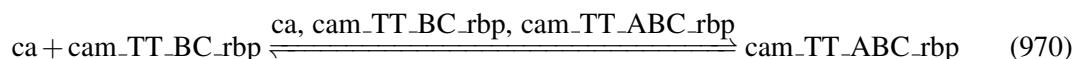
$$v_{458} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_ABC_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_ABC_rbp}]) \quad (969)$$

7.459 Reaction ca_binding_to_cam_TT_BC_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_BC_rbp on site A

Reaction equation



Reactants

Table 1380: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BC_rbp	cam_TT_BC_rbp	

Modifiers

Table 1381: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BC_rbp	cam_TT_BC_rbp	
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Product

Table 1382: Properties of each product.

Id	Name	SBO
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

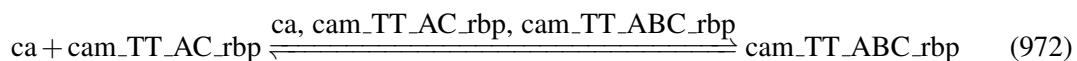
$$v_{459} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BC_rbp}] - \text{koff_AT} \cdot [\text{cam_TT_ABC_rbp}]) \quad (971)$$

7.460 Reaction ca_binding_to_cam_TT_AC_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.AC.rbp on site B

Reaction equation



Reactants

Table 1383: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AC_rbp	cam_TT_AC_rbp	

Modifiers

Table 1384: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AC_rbp	cam_TT_AC_rbp	
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Product

Table 1385: Properties of each product.

Id	Name	SBO
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

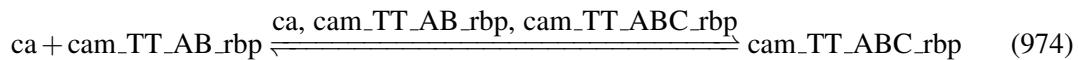
$$v_{460} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_AC_rbp}] - \text{koff_BT} \cdot [\text{cam_TT_ABC_rbp}]) \quad (973)$$

7.461 Reaction ca_binding_to_cam_TT_AB_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AB_rbp on site C

Reaction equation



Reactants

Table 1386: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AB_rbp	cam_TT_AB_rbp	

Modifiers

Table 1387: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AB_rbp	cam_TT_AB_rbp	
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Product

Table 1388: Properties of each product.

Id	Name	SBO
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Kinetic Law

Derived unit contains undeclared units

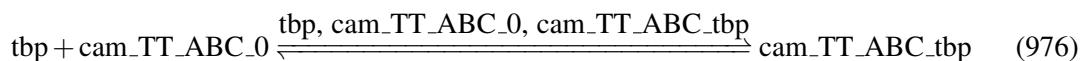
$$v_{461} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_AB_rbp}] - \text{koff_CT} \cdot [\text{cam_TT_ABC_rbp}]) \quad (975)$$

7.462 Reaction tbp_binding_to_cam_TT_ABC_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_ABC_0

Reaction equation



Reactants

Table 1389: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_ABC_0	cam_TT_ABC_0	

Modifiers

Table 1390: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_ABC_0	cam_TT_ABC_0	
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Product

Table 1391: Properties of each product.

Id	Name	SBO
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

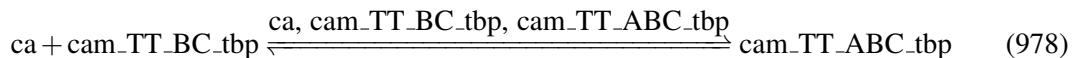
$$v_{462} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_ABC_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_ABC_tbp}]) \quad (977)$$

7.463 Reaction ca_binding_to_cam_TT_BC_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_BC_tbp on site A

Reaction equation



Reactants

Table 1392: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BC_tbp	cam_TT_BC_tbp	

Modifiers

Table 1393: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BC_tbp	cam_TT_BC_tbp	
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Product

Table 1394: Properties of each product.

Id	Name	SBO
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

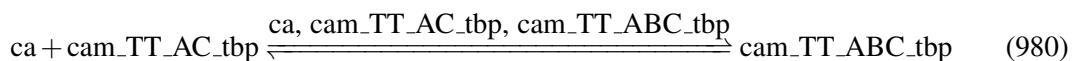
$$v_{463} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BC_tbp}] - \text{koff_AT} \cdot [\text{cam_TT_ABC_tbp}]) \quad (979)$$

7.464 Reaction ca_binding_to_cam_TT_AC_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.AC.tbp on site B

Reaction equation



Reactants

Table 1395: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AC_tbp	cam_TT_AC_tbp	

Modifiers

Table 1396: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AC_tbp	cam_TT_AC_tbp	
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Product

Table 1397: Properties of each product.

Id	Name	SBO
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

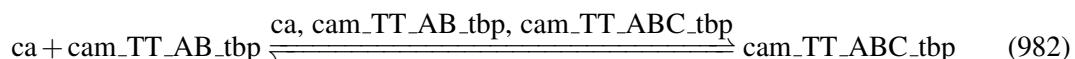
$$v_{464} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_AC_tbp}] - \text{koff_BT} \cdot [\text{cam_TT_ABC_tbp}]) \quad (981)$$

7.465 Reaction ca_binding_to_cam_TT_AB_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AB_tbp on site C

Reaction equation



Reactants

Table 1398: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AB_tbp	cam_TT_AB_tbp	

Modifiers

Table 1399: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AB_tbp	cam_TT_AB_tbp	
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Product

Table 1400: Properties of each product.

Id	Name	SBO
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Kinetic Law

Derived unit contains undeclared units

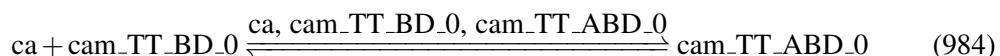
$$v_{465} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_AB_tbp}] - \text{koff_CT} \cdot [\text{cam_TT_ABC_tbp}]) \quad (983)$$

7.466 Reaction ca_binding_to_cam_TT_BD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.BD.0 on site A

Reaction equation



Reactants

Table 1401: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BD_0	cam_TT_BD_0	

Modifiers

Table 1402: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BD_0	cam_TT_BD_0	
cam_TT_ABD_0	cam_TT_ABD_0	

Product

Table 1403: Properties of each product.

Id	Name	SBO
cam_TT_ABD_0	cam_TT_ABD_0	

Kinetic Law

Derived unit contains undeclared units

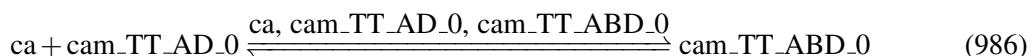
$$v_{466} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BD_0}] - \text{koff_AT} \cdot [\text{cam_TT_ABD_0}]) \quad (985)$$

7.467 Reaction ca_binding_to_cam_TT_AD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AD_0 on site B

Reaction equation



Reactants

Table 1404: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AD_0	cam_TT_AD_0	

Modifiers

Table 1405: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AD_0	cam_TT_AD_0	
cam_TT_ABD_0	cam_TT_ABD_0	

Product

Table 1406: Properties of each product.

Id	Name	SBO
cam_TT_ABD_0	cam_TT_ABD_0	

Kinetic Law

Derived unit contains undeclared units

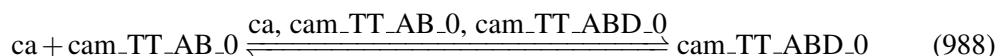
$$\nu_{467} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_AD_0}] - \text{koff_BT} \cdot [\text{cam_TT_ABD_0}]) \quad (987)$$

7.468 Reaction ca_binding_to_cam_TT_AB_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AB_0 on site D

Reaction equation



Reactants

Table 1407: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AB_0	cam_TT_AB_0	

Modifiers

Table 1408: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AB_0	cam_TT_AB_0	
cam_TT_ABD_0	cam_TT_ABD_0	

Product

Table 1409: Properties of each product.

Id	Name	SBO
cam_TT_ABD_0	cam_TT_ABD_0	

Kinetic Law

Derived unit contains undeclared units

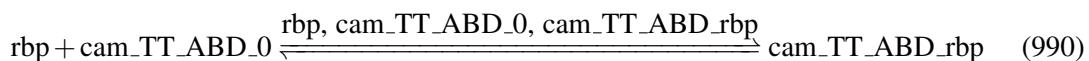
$$v_{468} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_AB_0}] - \text{koff_DT} \cdot [\text{cam_TT_ABD_0}]) \quad (989)$$

7.469 Reaction rbp_binding_to_cam_TT_ABD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_ABD_0

Reaction equation



Reactants

Table 1410: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_TT_ABD_0	cam_TT_ABD_0	

Modifiers

Table 1411: Properties of each modifier.

Id	Name	SBO
rbp	rpb	
cam_TT_ABD_0	cam_TT_ABD_0	
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Product

Table 1412: Properties of each product.

Id	Name	SBO
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

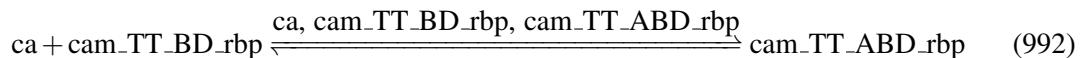
$$v_{469} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_ABD_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_ABD_rbp}]) \quad (991)$$

7.470 Reaction ca_binding_to_cam_TT_BD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_BD_rbp on site A

Reaction equation



Reactants

Table 1413: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BD_rbp	cam_TT_BD_rbp	

Modifiers

Table 1414: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BD_rbp	cam_TT_BD_rbp	
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Product

Table 1415: Properties of each product.

Id	Name	SBO
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

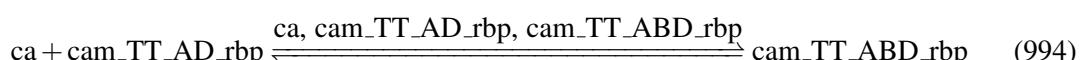
$$v_{470} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BD_rbp}] - \text{koff_AT} \cdot [\text{cam_TT_ABD_rbp}]) \quad (993)$$

7.471 Reaction ca_binding_to_cam_TT_AD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AD_rbp on site B

Reaction equation



Reactants

Table 1416: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AD_rbp	cam_TT_AD_rbp	

Modifiers

Table 1417: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AD_rbp	cam_TT_AD_rbp	
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Product

Table 1418: Properties of each product.

Id	Name	SBO
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

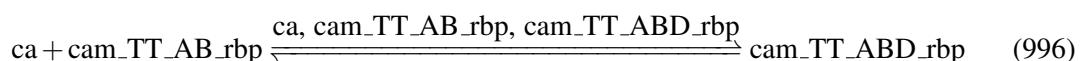
$$v_{471} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_AD_rbp}] - \text{koff_BT} \cdot [\text{cam_TT_ABD_rbp}]) \quad (995)$$

7.472 Reaction ca_binding_to_cam_TT_AB_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AB_rbp on site D

Reaction equation



Reactants

Table 1419: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AB_rbp	cam_TT_AB_rbp	

Modifiers

Table 1420: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AB_rbp	cam_TT_AB_rbp	
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Product

Table 1421: Properties of each product.

Id	Name	SBO
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Kinetic Law

Derived unit contains undeclared units

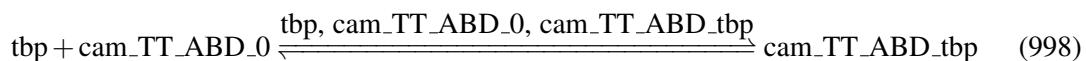
$$v_{472} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_AB_rbp}] - \text{koff_DT} \cdot [\text{cam_TT_ABD_rbp}]) \quad (997)$$

7.473 Reaction tbp_binding_to_cam_TT_ABD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_ABD_0

Reaction equation



Reactants

Table 1422: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_ABD_0	cam_TT_ABD_0	

Modifiers

Table 1423: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_ABD_0	cam_TT_ABD_0	
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Product

Table 1424: Properties of each product.

Id	Name	SBO
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

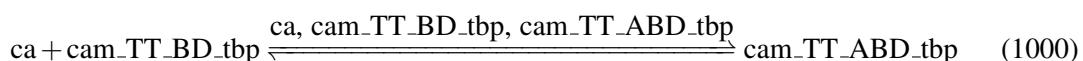
$$v_{473} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_ABD_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_ABD_tbp}]) \quad (999)$$

7.474 Reaction ca_binding_to_cam_TT_BD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_BD_tbp on site A

Reaction equation



Reactants

Table 1425: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BD_tbp	cam_TT_BD_tbp	

Modifiers

Table 1426: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BD_tbp	cam_TT_BD_tbp	
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Product

Table 1427: Properties of each product.

Id	Name	SBO
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

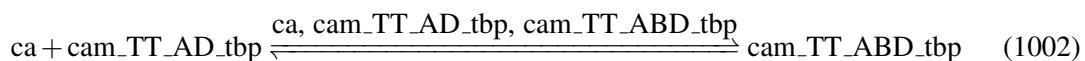
$$v_{474} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BD_tbp}] - \text{koff_AT} \cdot [\text{cam_TT_ABD_tbp}]) \quad (1001)$$

7.475 Reaction ca_binding_to_cam_TT_AD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AD_tbp on site B

Reaction equation



Reactants

Table 1428: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AD_tbp	cam_TT_AD_tbp	

Modifiers

Table 1429: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AD_tbp	cam_TT_AD_tbp	
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Product

Table 1430: Properties of each product.

Id	Name	SBO
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

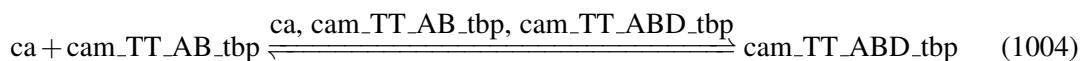
$$v_{475} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_AD_tbp}] - \text{koff_BT} \cdot [\text{cam_TT_ABD_tbp}]) \quad (1003)$$

7.476 Reaction ca_binding_to_cam_TT_AB_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.AB.tbp on site D

Reaction equation



Reactants

Table 1431: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AB_tbp	cam_TT_AB_tbp	

Modifiers

Table 1432: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AB_tbp	cam_TT_AB_tbp	
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Product

Table 1433: Properties of each product.

Id	Name	SBO
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{476} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_AB_tbp}] - \text{koff_DT} \cdot [\text{cam_TT_ABD_tbp}]) \quad (1005)$$

7.477 Reaction ca_binding_to_cam_TT_CD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.CD.0 on site A

Reaction equation



Reactants

Table 1434: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_CD_0	cam_TT_CD_0	

Modifiers

Table 1435: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_CD_0	cam_TT_CD_0	
cam_TT_ACD_0	cam_TT_ACD_0	

Product

Table 1436: Properties of each product.

Id	Name	SBO
cam_TT_ACD_0	cam_TT_ACD_0	

Kinetic Law

Derived unit contains undeclared units

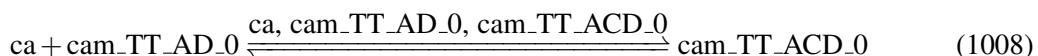
$$v_{477} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_CD_0}] - \text{koff_AT} \cdot [\text{cam_TT_ACD_0}]) \quad (1007)$$

7.478 Reaction ca_binding_to_cam_TT_AD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AD_0 on site C

Reaction equation



Reactants

Table 1437: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AD_0	cam_TT_AD_0	

Modifiers

Table 1438: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AD_0	cam_TT_AD_0	
cam_TT_ACD_0	cam_TT_ACD_0	

Product

Table 1439: Properties of each product.

Id	Name	SBO
cam_TT_ACD_0	cam_TT_ACD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{478} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_AD_0}] - \text{koff_CT} \cdot [\text{cam_TT_ACD_0}]) \quad (1009)$$

7.479 Reaction ca_binding_to_cam_TT_AC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AC_0 on site D

Reaction equation



Reactants

Table 1440: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AC_0	cam_TT_AC_0	

Modifiers

Table 1441: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AC_0	cam_TT_AC_0	
cam_TT_ACD_0	cam_TT_ACD_0	

Product

Table 1442: Properties of each product.

Id	Name	SBO
cam_TT_ACD_0	cam_TT_ACD_0	

Kinetic Law

Derived unit contains undeclared units

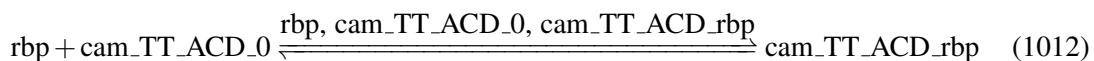
$$\nu_{479} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_AC_0}] - \text{koff_DT} \cdot [\text{cam_TT_ACD_0}]) \quad (1011)$$

7.480 Reaction rbp_binding_to_cam_TT_ACD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_ACD_0

Reaction equation



Reactants

Table 1443: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_TT_ACD_0	cam_TT_ACD_0	

Modifiers

Table 1444: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TT_ACD_0	cam_TT_ACD_0	
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Product

Table 1445: Properties of each product.

Id	Name	SBO
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

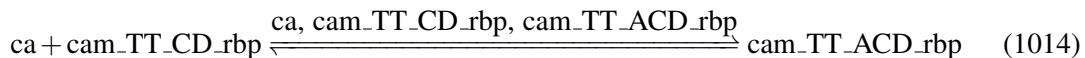
$$v_{480} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_ACD_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_ACD_rbp}]) \quad (1013)$$

7.481 Reaction ca_binding_to_cam_TT_CD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_CD_rbp on site A

Reaction equation



Reactants

Table 1446: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_CD_rbp	cam_TT_CD_rbp	

Modifiers

Table 1447: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_CD_rbp	cam_TT_CD_rbp	
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Product

Table 1448: Properties of each product.

Id	Name	SBO
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

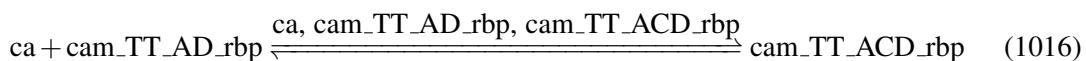
$$v_{481} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_CD_rbp}] - \text{koff_AT} \cdot [\text{cam_TT_ACD_rbp}]) \quad (1015)$$

7.482 Reaction ca_binding_to_cam_TT_AD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AD_rbp on site C

Reaction equation



Reactants

Table 1449: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AD_rbp	cam_TT_AD_rbp	

Modifiers

Table 1450: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AD_rbp	cam_TT_AD_rbp	
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Product

Table 1451: Properties of each product.

Id	Name	SBO
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

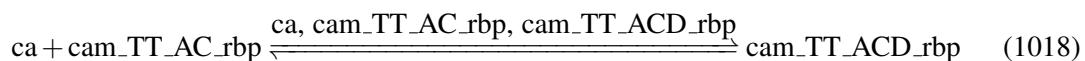
$$v_{482} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_AD_rbp}] - \text{koff_CT} \cdot [\text{cam_TT_ACD_rbp}]) \quad (1017)$$

7.483 Reaction ca_binding_to_cam_TT_AC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AC_rbp on site D

Reaction equation



Reactants

Table 1452: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AC_rbp	cam_TT_AC_rbp	

Modifiers

Table 1453: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AC_rbp	cam_TT_AC_rbp	
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Product

Table 1454: Properties of each product.

Id	Name	SBO
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Kinetic Law

Derived unit contains undeclared units

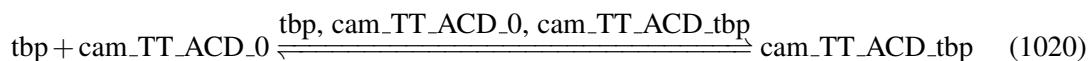
$$v_{483} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_AC_rbp}] - \text{koff_DT} \cdot [\text{cam_TT_ACD_rbp}]) \quad (1019)$$

7.484 Reaction tbp_binding_to_cam_TT_ACD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_ACD_0

Reaction equation



Reactants

Table 1455: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_ACD_0	cam_TT_ACD_0	

Modifiers

Table 1456: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_ACD_0	cam_TT_ACD_0	
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Product

Table 1457: Properties of each product.

Id	Name	SBO
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

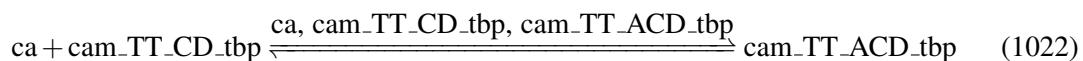
$$v_{484} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_ACD_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_ACD_tbp}]) \quad (1021)$$

7.485 Reaction ca_binding_to_cam_TT_CD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_CD_tbp on site A

Reaction equation



Reactants

Table 1458: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_CD_tbp	cam_TT_CD_tbp	

Modifiers

Table 1459: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_CD_tbp	cam_TT_CD_tbp	
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Product

Table 1460: Properties of each product.

Id	Name	SBO
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

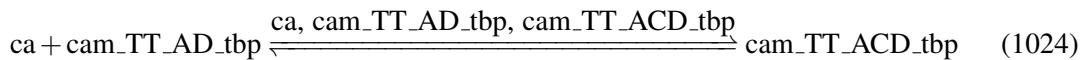
$$v_{485} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_CD_tbp}] - \text{koff_AT} \cdot [\text{cam_TT_ACD_tbp}]) \quad (1023)$$

7.486 Reaction ca_binding_to_cam_TT_AD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_AD_tbp on site C

Reaction equation



Reactants

Table 1461: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AD_tbp	cam_TT_AD_tbp	

Modifiers

Table 1462: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AD_tbp	cam_TT_AD_tbp	
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Product

Table 1463: Properties of each product.

Id	Name	SBO
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

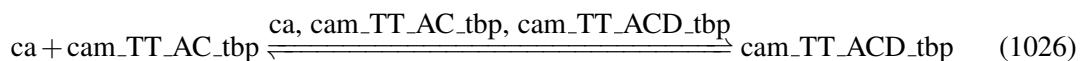
$$v_{486} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_AD_tbp}] - \text{koff_CT} \cdot [\text{cam_TT_ACD_tbp}]) \quad (1025)$$

7.487 Reaction ca_binding_to_cam_TT_AC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.AC.tbp on site D

Reaction equation



Reactants

Table 1464: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_AC_tbp	cam_TT_AC_tbp	

Modifiers

Table 1465: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_AC_tbp	cam_TT_AC_tbp	
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Product

Table 1466: Properties of each product.

Id	Name	SBO
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{487} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_AC_tbp}] - \text{koff_DT} \cdot [\text{cam_TT_ACD_tbp}]) \quad (1027)$$

7.488 Reaction ca_binding_to_cam_TT_CD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_CD_0 on site B

Reaction equation



Reactants

Table 1467: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_CD_0	cam_TT_CD_0	

Modifiers

Table 1468: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_CD_0	cam_TT_CD_0	
cam_TT_BCD_0	cam_TT_BCD_0	

Product

Table 1469: Properties of each product.

Id	Name	SBO
cam_TT_BCD_0	cam_TT_BCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{488} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_CD_0}] - \text{koff_BT} \cdot [\text{cam_TT_BCD_0}]) \quad (1029)$$

7.489 Reaction ca_binding_to_cam_TT_BD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_BD_0 on site C

Reaction equation



Reactants

Table 1470: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BD_0	cam_TT_BD_0	

Modifiers

Table 1471: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BD_0	cam_TT_BD_0	
cam_TT_BCD_0	cam_TT_BCD_0	

Product

Table 1472: Properties of each product.

Id	Name	SBO
cam_TT_BCD_0	cam_TT_BCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{489} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_BD_0}] - \text{koff_CT} \cdot [\text{cam_TT_BCD_0}]) \quad (1031)$$

7.490 Reaction ca_binding_to_cam_TT_BC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.BC_0 on site D

Reaction equation



Reactants

Table 1473: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BC_0	cam_TT_BC_0	

Modifiers

Table 1474: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BC_0	cam_TT_BC_0	
cam_TT_BCD_0	cam_TT_BCD_0	

Product

Table 1475: Properties of each product.

Id	Name	SBO
cam_TT_BCD_0	cam_TT_BCD_0	

Kinetic Law

Derived unit contains undeclared units

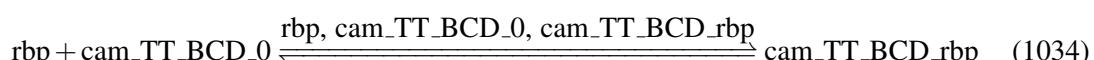
$$v_{490} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_BC_0}] - \text{koff_DT} \cdot [\text{cam_TT_BCD_0}]) \quad (1033)$$

7.491 Reaction rbp_binding_to_cam_TT_BCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_BCD_0

Reaction equation



Reactants

Table 1476: Properties of each reactant.

Id	Name	SBO
rbp	rpb	
cam_TT_BCD_0	cam_TT_BCD_0	

Modifiers

Table 1477: Properties of each modifier.

Id	Name	SBO
rpb	rpb	
cam_TT_BCD_0	cam_TT_BCD_0	
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Product

Table 1478: Properties of each product.

Id	Name	SBO
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

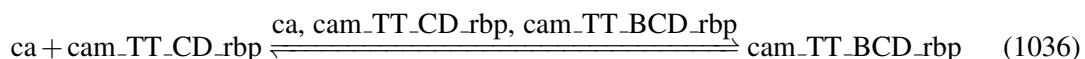
$$v_{491} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_BCD_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_BCD_rbp}]) \quad (1035)$$

7.492 Reaction ca_binding_to_cam_TT_CD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_CD_rbp on site B

Reaction equation



Reactants

Table 1479: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_CD_rbp	cam_TT_CD_rbp	

Modifiers

Table 1480: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_CD_rbp	cam_TT_CD_rbp	
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Product

Table 1481: Properties of each product.

Id	Name	SBO
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

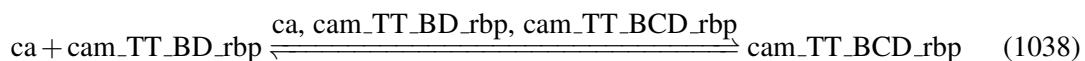
$$v_{492} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_CD_rbp}] - \text{koff_BT} \cdot [\text{cam_TT_BCD_rbp}]) \quad (1037)$$

7.493 Reaction ca_binding_to_cam_TT_BD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.BD.rbp on site C

Reaction equation



Reactants

Table 1482: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BD_rbp	cam_TT_BD_rbp	

Modifiers

Table 1483: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BD_rbp	cam_TT_BD_rbp	
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Product

Table 1484: Properties of each product.

Id	Name	SBO
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

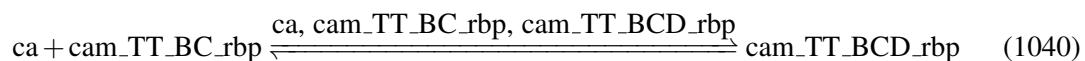
$$v_{493} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_BD_rbp}] - \text{koff_CT} \cdot [\text{cam_TT_BCD_rbp}]) \quad (1039)$$

7.494 Reaction ca_binding_to_cam_TT_BC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.BC.rbp on site D

Reaction equation



Reactants

Table 1485: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BC_rbp	cam_TT_BC_rbp	

Modifiers

Table 1486: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BC_rbp	cam_TT_BC_rbp	
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Product

Table 1487: Properties of each product.

Id	Name	SBO
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Kinetic Law

Derived unit contains undeclared units

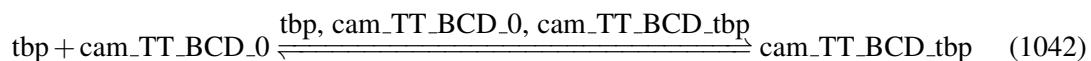
$$v_{494} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_BC_rbp}] - \text{koff_DT} \cdot [\text{cam_TT_BCD_rbp}]) \quad (1041)$$

7.495 Reaction tbp_binding_to_cam_TT_BCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_BCD_0

Reaction equation



Reactants

Table 1488: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_BCD_0	cam_TT_BCD_0	

Modifiers

Table 1489: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_BCD_0	cam_TT_BCD_0	
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Product

Table 1490: Properties of each product.

Id	Name	SBO
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

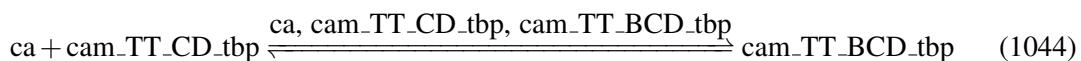
$$v_{495} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_BCD_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_BCD_tbp}]) \quad (1043)$$

7.496 Reaction ca_binding_to_cam_TT_CD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_CD_tbp on site B

Reaction equation



Reactants

Table 1491: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_CD_tbp	cam_TT_CD_tbp	

Modifiers

Table 1492: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_CD_tbp	cam_TT_CD_tbp	
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Product

Table 1493: Properties of each product.

Id	Name	SBO
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

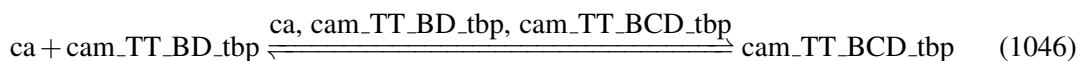
$$v_{496} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_CD_tbp}] - \text{koff_BT} \cdot [\text{cam_TT_BCD_tbp}]) \quad (1045)$$

7.497 Reaction ca_binding_to_cam_TT_BD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.BD.tbp on site C

Reaction equation



Reactants

Table 1494: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BD_tbp	cam_TT_BD_tbp	

Modifiers

Table 1495: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BD_tbp	cam_TT_BD_tbp	
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Product

Table 1496: Properties of each product.

Id	Name	SBO
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

$$v_{497} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_BD_tbp}] - \text{koff_CT} \cdot [\text{cam_TT_BCD_tbp}]) \quad (1047)$$

7.498 Reaction ca_binding_to_cam_TT_BC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.BC.tbp on site D

Reaction equation



Reactants

Table 1497: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BC_tbp	cam_TT_BC_tbp	

Modifiers

Table 1498: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BC_tbp	cam_TT_BC_tbp	
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Product

Table 1499: Properties of each product.

Id	Name	SBO
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Kinetic Law

Derived unit contains undeclared units

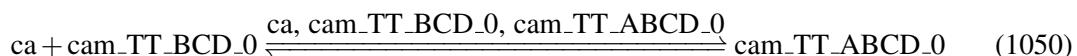
$$v_{498} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_BC_tbp}] - \text{koff_DT} \cdot [\text{cam_TT_BCD_tbp}]) \quad (1049)$$

7.499 Reaction ca_binding_to_cam_TT_BCD_0_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.BCD.0 on site A

Reaction equation



Reactants

Table 1500: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BCD_0	cam_TT_BCD_0	

Modifiers

Table 1501: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BCD_0	cam_TT_BCD_0	
cam_TT_ABCD_0	cam_TT_ABCD_0	

Product

Table 1502: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_0	cam_TT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

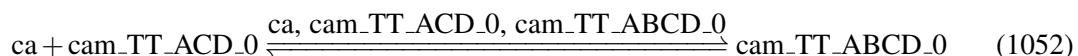
$$v_{499} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BCD_0}] - \text{koff_AT} \cdot [\text{cam_TT_ABCD_0}]) \quad (1051)$$

7.500 Reaction ca_binding_to_cam_TT_ACD_0_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.ACD.0 on site B

Reaction equation



Reactants

Table 1503: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ACD_0	cam_TT_ACD_0	

Modifiers

Table 1504: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ACD_0	cam_TT_ACD_0	
cam_TT_ABCD_0	cam_TT_ABCD_0	

Product

Table 1505: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_0	cam_TT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

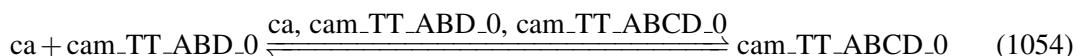
$$v_{500} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_ACD_0}] - \text{koff_BT} \cdot [\text{cam_TT_ABCD_0}]) \quad (1053)$$

7.501 Reaction ca_binding_to_cam_TT_ABD_0_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_ABD_0 on site C

Reaction equation



Reactants

Table 1506: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ABD_0	cam_TT_ABD_0	

Modifiers

Table 1507: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ABD_0	cam_TT_ABD_0	
cam_TT_ABCD_0	cam_TT_ABCD_0	

Product

Table 1508: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_0	cam_TT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

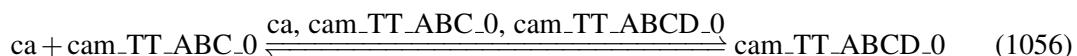
$$v_{501} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_ABD_0}] - \text{koff_CT} \cdot [\text{cam_TT_ABCD_0}]) \quad (1055)$$

7.502 Reaction ca_binding_to_cam_TT_ABC_0_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam.TT.ABC.0 on site D

Reaction equation



Reactants

Table 1509: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ABC_0	cam_TT_ABC_0	

Modifiers

Table 1510: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ABC_0	cam_TT_ABC_0	
cam_TT_ABCD_0	cam_TT_ABCD_0	

Product

Table 1511: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_0	cam_TT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

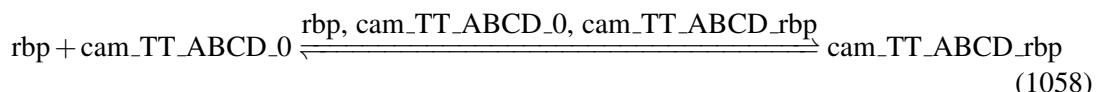
$$v_{502} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_ABC_0}] - \text{koff_DT} \cdot [\text{cam_TT_ABCD_0}]) \quad (1057)$$

7.503 Reaction rbp_binding_to_cam_TT_ABCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name rbp binding to cam_TT_ABCD_0

Reaction equation



Reactants

Table 1512: Properties of each reactant.

Id	Name	SBO
rbp	rbp	
cam_TT_ABCD_0	cam_TT_ABCD_0	

Modifiers

Table 1513: Properties of each modifier.

Id	Name	SBO
rbp	rbp	
cam_TT_ABCD_0	cam_TT_ABCD_0	
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Product

Table 1514: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

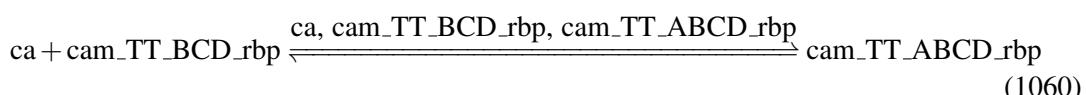
$$v_{503} = \text{vol}(\text{cytosol}) \cdot (\text{kon_rbp} \cdot [\text{rbp}] \cdot [\text{cam_TT_ABCD_0}] - \text{koff_rbp_TT} \cdot [\text{cam_TT_ABCD_rbp}]) \quad (1059)$$

7.504 Reaction ca_binding_to_cam_TT_BCD_rbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_BCD_rbp on site A

Reaction equation



Reactants

Table 1515: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BCD_rbp	cam_TT_BCD_rbp	

Modifiers

Table 1516: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BCD_rbp	cam_TT_BCD_rbp	
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Product

Table 1517: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

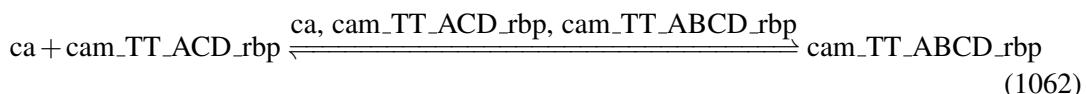
$$v_{504} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BCD_rbp}] - \text{koff_AT} \cdot [\text{cam_TT_ABCD_rbp}]) \quad (1061)$$

7.505 Reaction ca_binding_to_cam_TT_ACD_rbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_ACD_rbp on site B

Reaction equation



Reactants

Table 1518: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ACD_rbp	cam_TT_ACD_rbp	

Modifiers

Table 1519: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ACD_rbp	cam_TT_ACD_rbp	
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Product

Table 1520: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

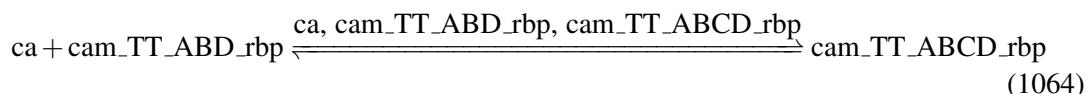
$$v_{505} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_ACD_rbp}] - \text{koff_BT} \cdot [\text{cam_TT_ABCD_rbp}]) \quad (1063)$$

7.506 Reaction ca_binding_to_cam_TT_ABD_rbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_ABD_rbp on site C

Reaction equation



Reactants

Table 1521: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ABD_rbp	cam_TT_ABD_rbp	

Modifiers

Table 1522: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ABD_rbp	cam_TT_ABD_rbp	
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Product

Table 1523: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

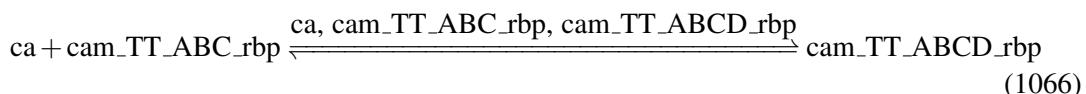
$$v_{506} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_ABD_rbp}] - \text{koff_CT} \cdot [\text{cam_TT_ABCD_rbp}]) \quad (1065)$$

7.507 Reaction ca_binding_to_cam_TT_ABC_rbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_ABC_rbp on site D

Reaction equation



Reactants

Table 1524: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ABC_rbp	cam_TT_ABC_rbp	

Modifiers

Table 1525: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ABC_rbp	cam_TT_ABC_rbp	
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Product

Table 1526: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_rbp	cam_TT_ABCD_rbp	

Kinetic Law

Derived unit contains undeclared units

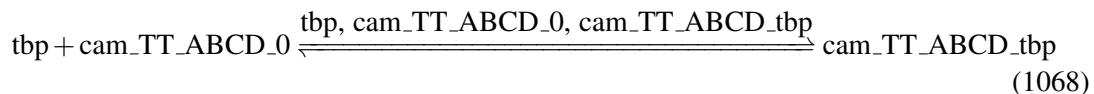
$$v_{507} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_ABC_rbp}] - \text{koff_DT} \cdot [\text{cam_TT_ABCD_rbp}]) \quad (1067)$$

7.508 Reaction tbp_binding_to_cam_TT_ABCD_0

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name tbp binding to cam_TT_ABCD_0

Reaction equation



Reactants

Table 1527: Properties of each reactant.

Id	Name	SBO
tbp	tbp	
cam_TT_ABCD_0	cam_TT_ABCD_0	

Modifiers

Table 1528: Properties of each modifier.

Id	Name	SBO
tbp	tbp	
cam_TT_ABCD_0	cam_TT_ABCD_0	
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Product

Table 1529: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

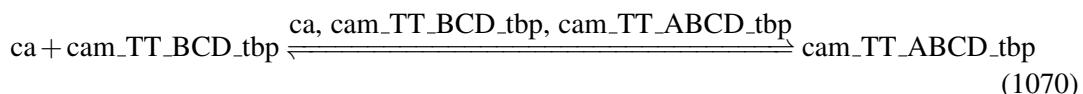
$$v_{508} = \text{vol}(\text{cytosol}) \cdot (\text{kon_tbp} \cdot [\text{tbp}] \cdot [\text{cam_TT_ABCD_0}] - \text{koff_tbp_TT} \cdot [\text{cam_TT_ABCD_tbp}]) \quad (1069)$$

7.509 Reaction ca_binding_to_cam_TT_BCD_tbp_on_site_A

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_BCD_tbp on site A

Reaction equation



Reactants

Table 1530: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_BCD_tbp	cam_TT_BCD_tbp	

Modifiers

Table 1531: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_BCD_tbp	cam_TT_BCD_tbp	
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Product

Table 1532: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

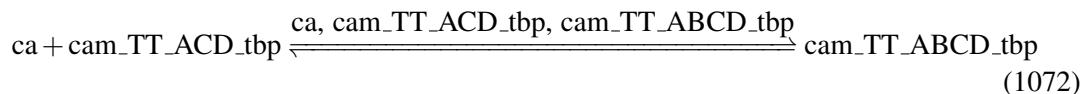
$$v_{509} = \text{vol}(\text{cytosol}) \cdot (\text{kon_AT} \cdot [\text{ca}] \cdot [\text{cam_TT_BCD_tbp}] - \text{koff_AT} \cdot [\text{cam_TT_ABCD_tbp}]) \quad (1071)$$

7.510 Reaction ca_binding_to_cam_TT_ACD_tbp_on_site_B

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_ACD_tbp on site B

Reaction equation



Reactants

Table 1533: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ACD_tbp	cam_TT_ACD_tbp	

Modifiers

Table 1534: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ACD_tbp	cam_TT_ACD_tbp	
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Product

Table 1535: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

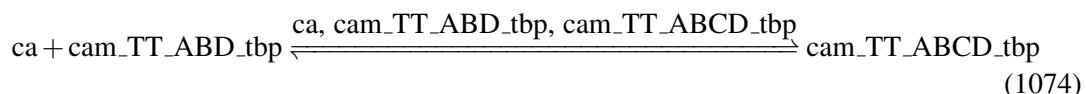
$$v_{510} = \text{vol}(\text{cytosol}) \cdot (\text{kon_BT} \cdot [\text{ca}] \cdot [\text{cam_TT_ACD_tbp}] - \text{koff_BT} \cdot [\text{cam_TT_ABCD_tbp}]) \quad (1073)$$

7.511 Reaction ca_binding_to_cam_TT_ABD_tbp_on_site_C

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_ABD_tbp on site C

Reaction equation



Reactants

Table 1536: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ABD_tbp	cam_TT_ABD_tbp	

Modifiers

Table 1537: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ABD_tbp	cam_TT_ABD_tbp	
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Product

Table 1538: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

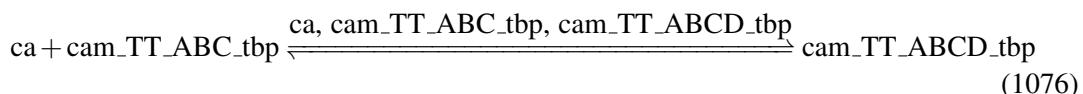
$$v_{511} = \text{vol}(\text{cytosol}) \cdot (\text{kon_CT} \cdot [\text{ca}] \cdot [\text{cam_TT_ABD_tbp}] - \text{koff_CT} \cdot [\text{cam_TT_ABCD_tbp}]) \quad (1075)$$

7.512 Reaction ca_binding_to_cam_TT_ABC_tbp_on_site_D

This is a reversible reaction of two reactants forming one product influenced by three modifiers.

Name ca binding to cam_TT_ABC_tbp on site D

Reaction equation



Reactants

Table 1539: Properties of each reactant.

Id	Name	SBO
ca	ca	
cam_TT_ABC_tbp	cam_TT_ABC_tbp	

Modifiers

Table 1540: Properties of each modifier.

Id	Name	SBO
ca	ca	
cam_TT_ABC_tbp	cam_TT_ABC_tbp	
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Product

Table 1541: Properties of each product.

Id	Name	SBO
cam_TT_ABCD_tbp	cam_TT_ABCD_tbp	

Kinetic Law

Derived unit contains undeclared units

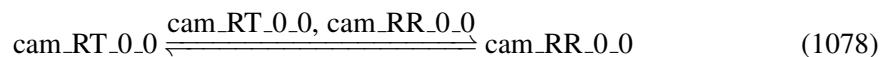
$$v_{512} = \text{vol}(\text{cytosol}) \cdot (\text{kon_DT} \cdot [\text{ca}] \cdot [\text{cam_TT_ABC_tbp}] - \text{koff_DT} \cdot [\text{cam_TT_ABCD_tbp}]) \quad (1077)$$

7.513 Reaction Transition_from_cam_RT_0_0_to_cam_RR_0_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_0_0 to cam_RR_0_0

Reaction equation



Reactant

Table 1542: Properties of each reactant.

Id	Name	SBO
cam_RT_0_0	cam_RT_0_0	

Modifiers

Table 1543: Properties of each modifier.

Id	Name	SBO
cam_RT_0_0	cam_RT_0_0	
cam_RR_0_0	cam_RR_0_0	

Product

Table 1544: Properties of each product.

Id	Name	SBO
cam_RR_0_0	cam_RR_0_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{513} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R_C}} \cdot [\text{cam_RT_0_0}] - k_{\text{R2T_C}} \cdot [\text{cam_RR_0_0}]) \quad (1079)$$

7.514 Reaction Transition_from_cam_RT_A_0_to_cam_RR_A_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_A_0 to cam_RR_A_0

Reaction equation



Reactant

Table 1545: Properties of each reactant.

Id	Name	SBO
cam_RT_A_0	cam_RT_A_0	

Modifiers

Table 1546: Properties of each modifier.

Id	Name	SBO
cam_RT_A_0	cam_RT_A_0	
cam_RR_A_0	cam_RR_A_0	

Product

Table 1547: Properties of each product.

Id	Name	SBO
cam_RR_A_0	cam_RR_A_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{514} = \text{vol}(\text{cytosol}) \cdot (k_{T2R} \cdot C \cdot [\text{cam_RT_A_0}] - k_{R2T} \cdot C \cdot [\text{cam_RR_A_0}]) \quad (1081)$$

7.515 Reaction Transition_from_cam_RT_B_0_to_cam_RR_B_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_B_0 to cam_RR_B_0

Reaction equation



Reactant

Table 1548: Properties of each reactant.

Id	Name	SBO
cam_RT_B_0	cam_RT_B_0	

Modifiers

Table 1549: Properties of each modifier.

Id	Name	SBO
cam_RT_B_0	cam_RT_B_0	
cam_RR_B_0	cam_RR_B_0	

Product

Table 1550: Properties of each product.

Id	Name	SBO
cam_RR_B_0	cam_RR_B_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{515} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R_C}} \cdot [\text{cam_RT_B_0}] - k_{\text{R2T_C}} \cdot [\text{cam_RR_B_0}]) \quad (1083)$$

7.516 Reaction Transition_from_cam_RT_C_0_to_cam_RR_C_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_C_0 to cam_RR_C_0

Reaction equation



Reactant

Table 1551: Properties of each reactant.

Id	Name	SBO
cam_RT_C_0	cam_RT_C_0	

Modifiers

Table 1552: Properties of each modifier.

Id	Name	SBO
cam_RT_C_0	cam_RT_C_0	
cam_RR_C_0	cam_RR_C_0	

Product

Table 1553: Properties of each product.

Id	Name	SBO
cam_RR_C_0	cam_RR_C_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{516} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_RT_C_0}] - \text{k_R2T_C1} \cdot [\text{cam_RR_C_0}]) \quad (1085)$$

7.517 Reaction Transition_from_cam_RT_D_0_to_cam_RR_D_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_D_0 to cam_RR_D_0

Reaction equation



Reactant

Table 1554: Properties of each reactant.

Id	Name	SBO
cam_RT_D_0	cam_RT_D_0	

Modifiers

Table 1555: Properties of each modifier.

Id	Name	SBO
cam_RT_D_0	cam_RT_D_0	
cam_RR_D_0	cam_RR_D_0	

Product

Table 1556: Properties of each product.

Id	Name	SBO
cam_RR_D_0	cam_RR_D_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{517} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_RT_D_0}] - \text{k_R2T_C1} \cdot [\text{cam_RR_D_0}]) \quad (1087)$$

7.518 Reaction Transition_from_cam_RT_AB_0_to_cam_RR_AB_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_AB_0 to cam_RR_AB_0

Reaction equation



Reactant

Table 1557: Properties of each reactant.

Id	Name	SBO
cam_RT_AB_0	cam_RT_AB_0	

Modifiers

Table 1558: Properties of each modifier.

Id	Name	SBO
cam_RT_AB_0	cam_RT_AB_0	
cam_RR_AB_0	cam_RR_AB_0	

Product

Table 1559: Properties of each product.

Id	Name	SBO
cam_RR_AB_0	cam_RR_AB_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{518} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.C}} \cdot [\text{cam_RT_AB_0}] - k_{\text{R2T.C}} \cdot [\text{cam_RR_AB_0}]) \quad (1089)$$

7.519 Reaction Transition_from_cam_RT_AC_0_to_cam_RR_AC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_AC_0 to cam_RR_AC_0

Reaction equation



Reactant

Table 1560: Properties of each reactant.

Id	Name	SBO
cam_RT_AC_0	cam_RT_AC_0	

Modifiers

Table 1561: Properties of each modifier.

Id	Name	SBO
cam_RT_AC_0	cam_RT_AC_0	
cam_RR_AC_0	cam_RR_AC_0	

Product

Table 1562: Properties of each product.

Id	Name	SBO
cam_RR_AC_0	cam_RR_AC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{519} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_RT_AC_0}] - \text{k_R2T_C1} \cdot [\text{cam_RR_AC_0}]) \quad (1091)$$

7.520 Reaction Transition_from_cam_RT_AD_0_to_cam_RR_AD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_AD_0 to cam_RR_AD_0

Reaction equation



Reactant

Table 1563: Properties of each reactant.

Id	Name	SBO
cam_RT_AD_0	cam_RT_AD_0	

Modifiers

Table 1564: Properties of each modifier.

Id	Name	SBO
cam_RT_AD_0	cam_RT_AD_0	
cam_RR_AD_0	cam_RR_AD_0	

Product

Table 1565: Properties of each product.

Id	Name	SBO
cam_RR_AD_0	cam_RR_AD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{520} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_RT_AD_0}] - \text{k_R2T_C1} \cdot [\text{cam_RR_AD_0}]) \quad (1093)$$

7.521 Reaction Transition_from_cam_RT_BC_0_to_cam_RR_BC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_BC_0 to cam_RR_BC_0

Reaction equation



Reactant

Table 1566: Properties of each reactant.

Id	Name	SBO
cam_RT_BC_0	cam_RT_BC_0	

Modifiers

Table 1567: Properties of each modifier.

Id	Name	SBO
cam_RT_BC_0	cam_RT_BC_0	
cam_RR_BC_0	cam_RR_BC_0	

Product

Table 1568: Properties of each product.

Id	Name	SBO
cam_RR_BC_0	cam_RR_BC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{521} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_RT_BC_0}] - \text{k_R2T_C1} \cdot [\text{cam_RR_BC_0}]) \quad (1095)$$

7.522 Reaction Transition_from_cam_RT_BD_0_to_cam_RR_BD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_BD_0 to cam_RR_BD_0

Reaction equation



Reactant

Table 1569: Properties of each reactant.

Id	Name	SBO
cam_RT_BD_0	cam_RT_BD_0	

Modifiers

Table 1570: Properties of each modifier.

Id	Name	SBO
cam_RT_BD_0	cam_RT_BD_0	
cam_RR_BD_0	cam_RR_BD_0	

Product

Table 1571: Properties of each product.

Id	Name	SBO
cam_RR_BD_0	cam_RR_BD_0	

Kinetic Law

Derived unit contains undeclared units

$$\nu_{522} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_RT_BD_0}] - \text{k_R2T_C1} \cdot [\text{cam_RR_BD_0}]) \quad (1097)$$

7.523 Reaction Transition_from_cam_RT_CD_0_to_cam_RR_CD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_CD_0 to cam_RR_CD_0

Reaction equation



Reactant

Table 1572: Properties of each reactant.

Id	Name	SBO
cam_RT_CD_0	cam_RT_CD_0	

Modifiers

Table 1573: Properties of each modifier.

Id	Name	SBO
cam_RT_CD_0	cam_RT_CD_0	
cam_RR_CD_0	cam_RR_CD_0	

Product

Table 1574: Properties of each product.

Id	Name	SBO
cam_RR_CD_0	cam_RR_CD_0	

Kinetic Law

Derived unit contains undeclared units

$$\nu_{523} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C2} \cdot [\text{cam_RT_CD_0}] - \text{k_R2T_C2} \cdot [\text{cam_RR_CD_0}]) \quad (1099)$$

7.524 Reaction Transition_from_cam_RT_ABC_0_to_cam_RR_ABC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_ABC_0 to cam_RR_ABC_0

Reaction equation



Reactant

Table 1575: Properties of each reactant.

Id	Name	SBO
cam_RT_ABC_0	cam_RT_ABC_0	

Modifiers

Table 1576: Properties of each modifier.

Id	Name	SBO
cam_RT_ABC_0	cam_RT_ABC_0	
cam_RR_ABC_0	cam_RR_ABC_0	

Product

Table 1577: Properties of each product.

Id	Name	SBO
cam_RR_ABC_0	cam_RR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{524} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_RT_ABC_0}] - \text{k_R2T_C1} \cdot [\text{cam_RR_ABC_0}]) \quad (1101)$$

7.525 Reaction Transition_from_cam_RT_ABD_0_to_cam_RR_ABD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_ABD_0 to cam_RR_ABD_0

Reaction equation



Reactant

Table 1578: Properties of each reactant.

Id	Name	SBO
cam_RT_ABD_0	cam_RT_ABD_0	

Modifiers

Table 1579: Properties of each modifier.

Id	Name	SBO
cam_RT_ABD_0	cam_RT_ABD_0	
cam_RR_ABD_0	cam_RR_ABD_0	

Product

Table 1580: Properties of each product.

Id	Name	SBO
cam_RR_ABD_0	cam_RR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{525} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_RT_ABD_0}] - \text{k_R2T_C1} \cdot [\text{cam_RR_ABD_0}]) \quad (1103)$$

7.526 Reaction Transition_from_cam_RT_ACD_0_to_cam_RR_ACD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_ACD_0 to cam_RR_ACD_0

Reaction equation



Reactant

Table 1581: Properties of each reactant.

Id	Name	SBO
cam_RT_ACD_0	cam_RT_ACD_0	

Modifiers

Table 1582: Properties of each modifier.

Id	Name	SBO
cam_RT_ACD_0	cam_RT_ACD_0	
cam_RR_ACD_0	cam_RR_ACD_0	

Product

Table 1583: Properties of each product.

Id	Name	SBO
cam_RR_ACD_0	cam_RR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{526} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C2} \cdot [\text{cam_RT_ACD_0}] - \text{k_R2T_C2} \cdot [\text{cam_RR_ACD_0}]) \quad (1105)$$

7.527 Reaction Transition_from.cam_RT_BCD_0_to.cam_RR_BCD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_BCD_0 to cam_RR_BCD_0

Reaction equation



Reactant

Table 1584: Properties of each reactant.

Id	Name	SBO
cam_RT_BCD_0	cam_RT_BCD_0	

Modifiers

Table 1585: Properties of each modifier.

Id	Name	SBO
cam_RT_BCD_0	cam_RT_BCD_0	
cam_RR_BCD_0	cam_RR_BCD_0	

Product

Table 1586: Properties of each product.

Id	Name	SBO
cam_RR_BCD_0	cam_RR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{527} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C2} \cdot [\text{cam_RT_BCD_0}] - \text{k_R2T_C2} \cdot [\text{cam_RR_BCD_0}]) \quad (1107)$$

7.528 Reaction Transition_from_cam_RT_ABCD_0_to_cam_RR_ABCD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_RT_ABCD_0 to cam_RR_ABCD_0

Reaction equation



Reactant

Table 1587: Properties of each reactant.

Id	Name	SBO
cam_RT_ABCD_0	cam_RT_ABCD_0	

Modifiers

Table 1588: Properties of each modifier.

Id	Name	SBO
cam_RT_ABCD_0	cam_RT_ABCD_0	
cam_RR_ABCD_0	cam_RR_ABCD_0	

Product

Table 1589: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_0	cam_RR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{528} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C2} \cdot [\text{cam_RT_ABCD_0}] - \text{k_R2T_C2} \cdot [\text{cam_RR_ABCD_0}]) \quad (1109)$$

7.529 Reaction Transition_from.cam.TR_0_0_to.cam.RR_0_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam.TR_0_0 to cam.RR_0_0

Reaction equation



Reactant

Table 1590: Properties of each reactant.

Id	Name	SBO
cam_TR_0_0	cam_TR_0_0	

Modifiers

Table 1591: Properties of each modifier.

Id	Name	SBO
cam_TR_0_0	cam_TR_0_0	
cam_RR_0_0	cam_RR_0_0	

Product

Table 1592: Properties of each product.

Id	Name	SBO
cam_RR_0_0	cam_RR_0_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{529} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.N}} \cdot [\text{cam_TR_0_0}] - k_{\text{R2T.N}} \cdot [\text{cam_RR_0_0}]) \quad (1111)$$

7.530 Reaction Transition_from_cam_TR_A_0_to_cam_RR_A_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_A_0 to cam_RR_A_0

Reaction equation



Reactant

Table 1593: Properties of each reactant.

Id	Name	SBO
cam_TR_A_0	cam_TR_A_0	

Modifiers

Table 1594: Properties of each modifier.

Id	Name	SBO
cam_TR_A_0	cam_TR_A_0	
cam_RR_A_0	cam_RR_A_0	

Product

Table 1595: Properties of each product.

Id	Name	SBO
cam_RR_A_0	cam_RR_A_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{530} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.N1}} \cdot [\text{cam_TR_A_0}] - k_{\text{R2T.N1}} \cdot [\text{cam_RR_A_0}]) \quad (1113)$$

7.531 Reaction Transition_from_cam_TR_B_0_to_cam_RR_B_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_B_0 to cam_RR_B_0

Reaction equation



Reactant

Table 1596: Properties of each reactant.

Id	Name	SBO
cam_TR_B_0	cam_TR_B_0	

Modifiers

Table 1597: Properties of each modifier.

Id	Name	SBO
cam_TR_B_0	cam_TR_B_0	
cam_RR_B_0	cam_RR_B_0	

Product

Table 1598: Properties of each product.

Id	Name	SBO
cam_RR_B_0	cam_RR_B_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{531} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TR_B_0}] - \text{k_R2T_N1} \cdot [\text{cam_RR_B_0}]) \quad (1115)$$

7.532 Reaction Transition_from_cam_TR_C_0_to_cam_RR_C_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_C_0 to cam_RR_C_0

Reaction equation



Reactant

Table 1599: Properties of each reactant.

Id	Name	SBO
cam_TR_C_0	cam_TR_C_0	

Modifiers

Table 1600: Properties of each modifier.

Id	Name	SBO
cam_TR_C_0	cam_TR_C_0	
cam_RR_C_0	cam_RR_C_0	

Product

Table 1601: Properties of each product.

Id	Name	SBO
cam_RR_C_0	cam_RR_C_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{532} = \text{vol}(\text{cytosol}) \cdot (k_{T2R_N} \cdot [\text{cam_TR_C_0}] - k_{R2T_N} \cdot [\text{cam_RR_C_0}]) \quad (1117)$$

7.533 Reaction Transition_from_cam_TR_D_0_to_cam_RR_D_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_D_0 to cam_RR_D_0

Reaction equation



Reactant

Table 1602: Properties of each reactant.

Id	Name	SBO
cam_TR_D_0	cam_TR_D_0	

Modifiers

Table 1603: Properties of each modifier.

Id	Name	SBO
cam_TR_D_0	cam_TR_D_0	
cam_RR_D_0	cam_RR_D_0	

Product

Table 1604: Properties of each product.

Id	Name	SBO
cam_RR_D_0	cam_RR_D_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{533} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N} \cdot [\text{cam_TR_D_0}] - \text{k_R2T_N} \cdot [\text{cam_RR_D_0}]) \quad (1119)$$

7.534 Reaction Transition_from_cam_TR_AB_0_to_cam_RR_AB_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_AB_0 to cam_RR_AB_0

Reaction equation



Reactant

Table 1605: Properties of each reactant.

Id	Name	SBO
cam_TR_AB_0	cam_TR_AB_0	

Modifiers

Table 1606: Properties of each modifier.

Id	Name	SBO
cam_TR_AB_0	cam_TR_AB_0	
cam_RR_AB_0	cam_RR_AB_0	

Product

Table 1607: Properties of each product.

Id	Name	SBO
cam_RR_AB_0	cam_RR_AB_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{534} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N2} \cdot [\text{cam_TR_AB_0}] - \text{k_R2T_N2} \cdot [\text{cam_RR_AB_0}]) \quad (1121)$$

7.535 Reaction Transition_from_cam_TR_AC_0_to_cam_RR_AC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_AC_0 to cam_RR_AC_0

Reaction equation



Reactant

Table 1608: Properties of each reactant.

Id	Name	SBO
cam_TR_AC_0	cam_TR_AC_0	

Modifiers

Table 1609: Properties of each modifier.

Id	Name	SBO
cam_TR_AC_0	cam_TR_AC_0	
cam_RR_AC_0	cam_RR_AC_0	

Product

Table 1610: Properties of each product.

Id	Name	SBO
cam_RR_AC_0	cam_RR_AC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{535} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TR_AC_0}] - \text{k_R2T_N1} \cdot [\text{cam_RR_AC_0}]) \quad (1123)$$

7.536 Reaction Transition_from_cam_TR_AD_0_to_cam_RR_AD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_AD_0 to cam_RR_AD_0

Reaction equation



Reactant

Table 1611: Properties of each reactant.

Id	Name	SBO
cam_TR_AD_0	cam_TR_AD_0	

Modifiers

Table 1612: Properties of each modifier.

Id	Name	SBO
cam_TR_AD_0	cam_TR_AD_0	
cam_RR_AD_0	cam_RR_AD_0	

Product

Table 1613: Properties of each product.

Id	Name	SBO
cam_RR_AD_0	cam_RR_AD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{536} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TR_AD_0}] - \text{k_R2T_N1} \cdot [\text{cam_RR_AD_0}]) \quad (1125)$$

7.537 Reaction Transition_from_cam_TR_BC_0_to_cam_RR_BC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_BC_0 to cam_RR_BC_0

Reaction equation



Reactant

Table 1614: Properties of each reactant.

Id	Name	SBO
cam_TR_BC_0	cam_TR_BC_0	

Modifiers

Table 1615: Properties of each modifier.

Id	Name	SBO
cam_TR_BC_0	cam_TR_BC_0	
cam_RR_BC_0	cam_RR_BC_0	

Product

Table 1616: Properties of each product.

Id	Name	SBO
cam_RR_BC_0	cam_RR_BC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{537} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TR_BC_0}] - \text{k_R2T_N1} \cdot [\text{cam_RR_BC_0}]) \quad (1127)$$

7.538 Reaction Transition_from_cam_TR_BD_0_to_cam_RR_BD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_BD_0 to cam_RR_BD_0

Reaction equation



Reactant

Table 1617: Properties of each reactant.

Id	Name	SBO
cam_TR_BD_0	cam_TR_BD_0	

Modifiers

Table 1618: Properties of each modifier.

Id	Name	SBO
cam_TR_BD_0	cam_TR_BD_0	
cam_RR_BD_0	cam_RR_BD_0	

Product

Table 1619: Properties of each product.

Id	Name	SBO
cam_RR_BD_0	cam_RR_BD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{538} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TR_BD_0}] - \text{k_R2T_N1} \cdot [\text{cam_RR_BD_0}]) \quad (1129)$$

7.539 Reaction Transition_from_cam_TR_CD_0_to_cam_RR_CD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_CD_0 to cam_RR_CD_0

Reaction equation



Reactant

Table 1620: Properties of each reactant.

Id	Name	SBO
cam_TR_CD_0	cam_TR_CD_0	

Modifiers

Table 1621: Properties of each modifier.

Id	Name	SBO
cam_TR_CD_0	cam_TR_CD_0	
cam_RR_CD_0	cam_RR_CD_0	

Product

Table 1622: Properties of each product.

Id	Name	SBO
cam_RR_CD_0	cam_RR_CD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{539} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N} \cdot [\text{cam_TR_CD_0}] - \text{k_R2T_N} \cdot [\text{cam_RR_CD_0}]) \quad (1131)$$

7.540 Reaction Transition_from_cam_TR_ABC_0_to_cam_RR_ABC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_ABC_0 to cam_RR_ABC_0

Reaction equation



Reactant

Table 1623: Properties of each reactant.

Id	Name	SBO
cam_TR_ABC_0	cam_TR_ABC_0	

Modifiers

Table 1624: Properties of each modifier.

Id	Name	SBO
cam_TR_ABC_0	cam_TR_ABC_0	
cam_RR_ABC_0	cam_RR_ABC_0	

Product

Table 1625: Properties of each product.

Id	Name	SBO
cam_RR_ABC_0	cam_RR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{540} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R_N2}} \cdot [\text{cam_TR_ABC_0}] - k_{\text{R2T_N2}} \cdot [\text{cam_RR_ABC_0}]) \quad (1133)$$

7.541 Reaction Transition_from_cam_TR_ABD_0_to_cam_RR_ABD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_ABD_0 to cam_RR_ABD_0

Reaction equation



Reactant

Table 1626: Properties of each reactant.

Id	Name	SBO
cam_TR_ABD_0	cam_TR_ABD_0	

Modifiers

Table 1627: Properties of each modifier.

Id	Name	SBO
cam_TR_ABD_0	cam_TR_ABD_0	
cam_RR_ABD_0	cam_RR_ABD_0	

Product

Table 1628: Properties of each product.

Id	Name	SBO
cam_RR_ABD_0	cam_RR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{541} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N2} \cdot [\text{cam_TR_ABD_0}] - \text{k_R2T_N2} \cdot [\text{cam_RR_ABD_0}]) \quad (1135)$$

7.542 Reaction Transition_from_cam_TR_ACD_0_to_cam_RR_ACD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_ACD_0 to cam_RR_ACD_0

Reaction equation



Reactant

Table 1629: Properties of each reactant.

Id	Name	SBO
cam_TR_ACD_0	cam_TR_ACD_0	

Modifiers

Table 1630: Properties of each modifier.

Id	Name	SBO
cam_TR_ACD_0	cam_TR_ACD_0	
cam_RR_ACD_0	cam_RR_ACD_0	

Product

Table 1631: Properties of each product.

Id	Name	SBO
cam_RR_ACD_0	cam_RR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{542} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TR_ACD_0}] - \text{k_R2T_N1} \cdot [\text{cam_RR_ACD_0}]) \quad (1137)$$

7.543 Reaction Transition_from.cam_TR_BCD_0_to.cam_RR_BCD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_BCD_0 to cam_RR_BCD_0

Reaction equation



Reactant

Table 1632: Properties of each reactant.

Id	Name	SBO
cam_TR_BCD_0	cam_TR_BCD_0	

Modifiers

Table 1633: Properties of each modifier.

Id	Name	SBO
cam_TR_BCD_0	cam_TR_BCD_0	
cam_RR_BCD_0	cam_RR_BCD_0	

Product

Table 1634: Properties of each product.

Id	Name	SBO
cam_RR_BCD_0	cam_RR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{543} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TR_BCD_0}] - \text{k_R2T_N1} \cdot [\text{cam_RR_BCD_0}]) \quad (1139)$$

7.544 Reaction Transition_from.cam_TR_ABCD_0_to.cam_RR_ABCD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TR_ABCD_0 to cam_RR_ABCD_0

Reaction equation



Reactant

Table 1635: Properties of each reactant.

Id	Name	SBO
cam_TR_ABCD_0	cam_TR_ABCD_0	

Modifiers

Table 1636: Properties of each modifier.

Id	Name	SBO
cam_TR_ABCD_0	cam_TR_ABCD_0	
cam_RR_ABCD_0	cam_RR_ABCD_0	

Product

Table 1637: Properties of each product.

Id	Name	SBO
cam_RR_ABCD_0	cam_RR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

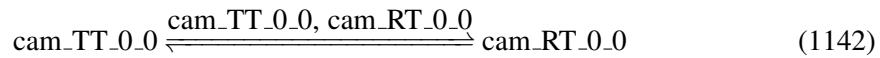
$$v_{544} = \text{vol}(\text{cytosol}) \cdot (k_{T2R\text{-}N2} \cdot [\text{cam_TR_ABCD_0}] - k_{R2T\text{-}N2} \cdot [\text{cam_RR_ABCD_0}]) \quad (1141)$$

7.545 Reaction Transition_from.cam_TT_0_0_to.cam_RT_0_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam.TT_0_0 to cam.RT_0_0

Reaction equation



Reactant

Table 1638: Properties of each reactant.

Id	Name	SBO
cam_TT_0_0	cam_TT_0_0	

Modifiers

Table 1639: Properties of each modifier.

Id	Name	SBO
cam_TT_0_0	cam_TT_0_0	
cam_RT_0_0	cam_RT_0_0	

Product

Table 1640: Properties of each product.

Id	Name	SBO
cam_RT_0_0	cam_RT_0_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{545} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.N}} \cdot [\text{cam_TT_0_0}] - k_{\text{R2T.N}} \cdot [\text{cam_RT_0_0}]) \quad (1143)$$

7.546 Reaction Transition_from_cam_TT_0_0_to_cam_TR_0_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_0_0 to cam_TR_0_0

Reaction equation



Reactant

Table 1641: Properties of each reactant.

Id	Name	SBO
cam_TT_O_0	cam_TT_O_0	

Modifiers

Table 1642: Properties of each modifier.

Id	Name	SBO
cam_TT_O_0	cam_TT_O_0	
cam_TR_O_0	cam_TR_O_0	

Product

Table 1643: Properties of each product.

Id	Name	SBO
cam_TR_O_0	cam_TR_O_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{546} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C} \cdot [\text{cam_TT_O_0}] - \text{k_R2T_C} \cdot [\text{cam_TR_O_0}]) \quad (1145)$$

7.547 Reaction Transition_from_cam_TT_A_0_to_cam_RT_A_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_A_0 to cam_RT_A_0

Reaction equation



Reactant

Table 1644: Properties of each reactant.

Id	Name	SBO
cam_TT_A_0	cam_TT_A_0	

Modifiers

Table 1645: Properties of each modifier.

Id	Name	SBO
cam_TT_A_0	cam_TT_A_0	
cam_RT_A_0	cam_RT_A_0	

Product

Table 1646: Properties of each product.

Id	Name	SBO
cam_RT_A_0	cam_RT_A_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{547} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TT_A_0}] - \text{k_R2T_N1} \cdot [\text{cam_RT_A_0}]) \quad (1147)$$

7.548 Reaction Transition_from_cam_TT_A_0_to_cam_TR_A_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_A_0 to cam_TR_A_0

Reaction equation



Reactant

Table 1647: Properties of each reactant.

Id	Name	SBO
cam_TT_A_0	cam_TT_A_0	

Modifiers

Table 1648: Properties of each modifier.

Id	Name	SBO
cam_TT_A_0	cam_TT_A_0	
cam_TR_A_0	cam_TR_A_0	

Product

Table 1649: Properties of each product.

Id	Name	SBO
cam_TR_A_0	cam_TR_A_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{548} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R_C}} \cdot [\text{cam_TT_A_0}] - k_{\text{R2T_C}} \cdot [\text{cam_TR_A_0}]) \quad (1149)$$

7.549 Reaction Transition_from_cam_TT_B_0_to_cam_RT_B_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_B_0 to cam_RT_B_0

Reaction equation



Reactant

Table 1650: Properties of each reactant.

Id	Name	SBO
cam_TT_B_0	cam_TT_B_0	

Modifiers

Table 1651: Properties of each modifier.

Id	Name	SBO
cam_TT_B_0	cam_TT_B_0	
cam_RT_B_0	cam_RT_B_0	

Product

Table 1652: Properties of each product.

Id	Name	SBO
cam_RT_B_0	cam_RT_B_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{549} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.N1}} \cdot [\text{cam_TT_B_0}] - k_{\text{R2T.N1}} \cdot [\text{cam_RT_B_0}]) \quad (1151)$$

7.550 Reaction Transition_from_cam_TT_B_0_to_cam_TR_B_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_B_0 to cam_TR_B_0

Reaction equation



Reactant

Table 1653: Properties of each reactant.

Id	Name	SBO
cam_TT_B_0	cam_TT_B_0	

Modifiers

Table 1654: Properties of each modifier.

Id	Name	SBO
cam_TT_B_0	cam_TT_B_0	
cam_TR_B_0	cam_TR_B_0	

Product

Table 1655: Properties of each product.

Id	Name	SBO
cam_TR_B_0	cam_TR_B_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{550} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R_C}} \cdot [\text{cam_TT_B_0}] - k_{\text{R2T_C}} \cdot [\text{cam_TR_B_0}]) \quad (1153)$$

7.551 Reaction Transition_from_cam_TT_C_0_to_cam_RT_C_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_C_0 to cam_RT_C_0

Reaction equation



Reactant

Table 1656: Properties of each reactant.

Id	Name	SBO
cam_TT_C_0	cam_TT_C_0	

Modifiers

Table 1657: Properties of each modifier.

Id	Name	SBO
cam_TT_C_0	cam_TT_C_0	
cam_RT_C_0	cam_RT_C_0	

Product

Table 1658: Properties of each product.

Id	Name	SBO
cam_RT_C_0	cam_RT_C_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{551} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.N}} \cdot [\text{cam_TT_C_0}] - k_{\text{R2T.N}} \cdot [\text{cam_RT_C_0}]) \quad (1155)$$

7.552 Reaction Transition_from.cam_TT_C_0_to.cam_TR_C_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_C_0 to cam_TR_C_0

Reaction equation



Reactant

Table 1659: Properties of each reactant.

Id	Name	SBO
cam_TT_C_0	cam_TT_C_0	

Modifiers

Table 1660: Properties of each modifier.

Id	Name	SBO
cam_TT_C_0	cam_TT_C_0	
cam_TR_C_0	cam_TR_C_0	

Product

Table 1661: Properties of each product.

Id	Name	SBO
cam_TR_C_0	cam_TR_C_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{552} = \text{vol(cytosol)} \cdot (\text{k_T2R_C1} \cdot [\text{cam_TT_C_0}] - \text{k_R2T_C1} \cdot [\text{cam_TR_C_0}]) \quad (1157)$$

7.553 Reaction Transition_from_cam_TT_D_0_to_cam_RT_D_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_D_0 to cam_RT_D_0

Reaction equation



Reactant

Table 1662: Properties of each reactant.

Id	Name	SBO
cam_TT_D_0	cam_TT_D_0	

Modifiers

Table 1663: Properties of each modifier.

Id	Name	SBO
cam_TT_D_0	cam_TT_D_0	
cam_RT_D_0	cam_RT_D_0	

Product

Table 1664: Properties of each product.

Id	Name	SBO
cam_RT_D_0	cam_RT_D_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{553} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R_N}} \cdot [\text{cam_TT_D_0}] - k_{\text{R2T_N}} \cdot [\text{cam_RT_D_0}]) \quad (1159)$$

7.554 Reaction Transition_from_cam_TT_D_0_to_cam_TR_D_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_D_0 to cam_TR_D_0

Reaction equation



Reactant

Table 1665: Properties of each reactant.

Id	Name	SBO
cam_TT_D_0	cam_TT_D_0	

Modifiers

Table 1666: Properties of each modifier.

Id	Name	SBO
cam_TT_D_0	cam_TT_D_0	
cam_TR_D_0	cam_TR_D_0	

Product

Table 1667: Properties of each product.

Id	Name	SBO
cam_TR_D_0	cam_TR_D_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{554} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_TT_D_0}] - \text{k_R2T_C1} \cdot [\text{cam_TR_D_0}]) \quad (1161)$$

7.555 Reaction Transition_from_cam_TT_AB_0_to_cam_RT_AB_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_AB_0 to cam_RT_AB_0

Reaction equation



Reactant

Table 1668: Properties of each reactant.

Id	Name	SBO
cam_TT_AB_0	cam_TT_AB_0	

Modifiers

Table 1669: Properties of each modifier.

Id	Name	SBO
cam_TT_AB_0	cam_TT_AB_0	
cam_RT_AB_0	cam_RT_AB_0	

Product

Table 1670: Properties of each product.

Id	Name	SBO
cam_RT_AB_0	cam_RT_AB_0	

Kinetic Law

Derived unit contains undeclared units

$$\nu_{555} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N2} \cdot [\text{cam_TT_AB_0}] - \text{k_R2T_N2} \cdot [\text{cam_RT_AB_0}]) \quad (1163)$$

7.556 Reaction Transition_from_cam_TT_AB_0_to_cam_TR_AB_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_AB_0 to cam_TR_AB_0

Reaction equation



Reactant

Table 1671: Properties of each reactant.

Id	Name	SBO
cam_TT_AB_0	cam_TT_AB_0	

Modifiers

Table 1672: Properties of each modifier.

Id	Name	SBO
cam_TT_AB_0	cam_TT_AB_0	
cam_TR_AB_0	cam_TR_AB_0	

Product

Table 1673: Properties of each product.

Id	Name	SBO
cam_TR_AB_0	cam_TR_AB_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{556} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R,C}} \cdot [\text{cam_TT_AB_0}] - k_{\text{R2T,C}} \cdot [\text{cam_TR_AB_0}]) \quad (1165)$$

7.557 Reaction Transition_from.cam_TT_AC_0_to.cam_RT_AC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_AC_0 to cam_RT_AC_0

Reaction equation



Reactant

Table 1674: Properties of each reactant.

Id	Name	SBO
cam_TT_AC_0	cam_TT_AC_0	

Modifiers

Table 1675: Properties of each modifier.

Id	Name	SBO
cam_TT_AC_0	cam_TT_AC_0	
cam_RT_AC_0	cam_RT_AC_0	

Product

Table 1676: Properties of each product.

Id	Name	SBO
cam_RT_AC_0	cam_RT_AC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{557} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.N1}} \cdot [\text{cam_TT_AC_0}] - k_{\text{R2T.N1}} \cdot [\text{cam_RT_AC_0}]) \quad (1167)$$

7.558 Reaction Transition_from.cam_TT_AC_0_to.cam_TR_AC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_AC_0 to cam_TR_AC_0

Reaction equation



Reactant

Table 1677: Properties of each reactant.

Id	Name	SBO
cam_TT_AC_0	cam_TT_AC_0	

Modifiers

Table 1678: Properties of each modifier.

Id	Name	SBO
cam_TT_AC_0	cam_TT_AC_0	
cam_TR_AC_0	cam_TR_AC_0	

Product

Table 1679: Properties of each product.

Id	Name	SBO
cam_TR_AC_0	cam_TR_AC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{558} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_TT_AC_0}] - \text{k_R2T_C1} \cdot [\text{cam_TR_AC_0}]) \quad (1169)$$

7.559 Reaction Transition_from_cam_TT_AD_0_to_cam_RT_AD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_AD_0 to cam_RT_AD_0

Reaction equation



Reactant

Table 1680: Properties of each reactant.

Id	Name	SBO
cam_TT_AD_0	cam_TT_AD_0	

Modifiers

Table 1681: Properties of each modifier.

Id	Name	SBO
cam_TT_AD_0	cam_TT_AD_0	
cam_RT_AD_0	cam_RT_AD_0	

Product

Table 1682: Properties of each product.

Id	Name	SBO
cam_RT_AD_0	cam_RT_AD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{559} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TT_AD_0}] - \text{k_R2T_N1} \cdot [\text{cam_RT_AD_0}]) \quad (1171)$$

7.560 Reaction Transition_from_cam_TT_AD_0_to_cam_TR_AD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_AD_0 to cam_TR_AD_0

Reaction equation



Reactant

Table 1683: Properties of each reactant.

Id	Name	SBO
cam_TT_AD_0	cam_TT_AD_0	

Modifiers

Table 1684: Properties of each modifier.

Id	Name	SBO
cam_TT_AD_0	cam_TT_AD_0	
cam_TR_AD_0	cam_TR_AD_0	

Product

Table 1685: Properties of each product.

Id	Name	SBO
cam_TR_AD_0	cam_TR_AD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{560} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_TT_AD_0}] - \text{k_R2T_C1} \cdot [\text{cam_TR_AD_0}]) \quad (1173)$$

7.561 Reaction Transition_from_cam_TT_BC_0_to_cam_RT_BC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_BC_0 to cam_RT_BC_0

Reaction equation



Reactant

Table 1686: Properties of each reactant.

Id	Name	SBO
cam_TT_BC_0	cam_TT_BC_0	

Modifiers

Table 1687: Properties of each modifier.

Id	Name	SBO
cam_TT_BC_0	cam_TT_BC_0	
cam_RT_BC_0	cam_RT_BC_0	

Product

Table 1688: Properties of each product.

Id	Name	SBO
cam_RT_BC_0	cam_RT_BC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{561} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.N1}} \cdot [\text{cam_TT_BC_0}] - k_{\text{R2T.N1}} \cdot [\text{cam_RT_BC_0}]) \quad (1175)$$

7.562 Reaction Transition_from.cam_TT_BC_0_to.cam_TR_BC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_BC_0 to cam_TR_BC_0

Reaction equation



Reactant

Table 1689: Properties of each reactant.

Id	Name	SBO
cam_TT_BC_0	cam_TT_BC_0	

Modifiers

Table 1690: Properties of each modifier.

Id	Name	SBO
cam_TT_BC_0	cam_TT_BC_0	
cam_TR_BC_0	cam_TR_BC_0	

Product

Table 1691: Properties of each product.

Id	Name	SBO
cam_TR_BC_0	cam_TR_BC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{562} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.C1}} \cdot [\text{cam_TT_BC_0}] - k_{\text{R2T.C1}} \cdot [\text{cam_TR_BC_0}]) \quad (1177)$$

7.563 Reaction Transition_from_cam_TT_BD_0_to_cam_RT_BD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_BD_0 to cam_RT_BD_0

Reaction equation



Reactant

Table 1692: Properties of each reactant.

Id	Name	SBO
cam_TT_BD_0	cam_TT_BD_0	

Modifiers

Table 1693: Properties of each modifier.

Id	Name	SBO
cam_TT_BD_0	cam_TT_BD_0	
cam_RT_BD_0	cam_RT_BD_0	

Product

Table 1694: Properties of each product.

Id	Name	SBO
cam_RT_BD_0	cam_RT_BD_0	

Kinetic Law

Derived unit contains undeclared units

$$\nu_{563} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TT_BD_0}] - \text{k_R2T_N1} \cdot [\text{cam_RT_BD_0}]) \quad (1179)$$

7.564 Reaction Transition_from.cam_TT_BD_0_to.cam_TR_BD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_BD_0 to cam_TR_BD_0

Reaction equation



Reactant

Table 1695: Properties of each reactant.

Id	Name	SBO
cam_TT_BD_0	cam_TT_BD_0	

Modifiers

Table 1696: Properties of each modifier.

Id	Name	SBO
cam_TT_BD_0	cam_TT_BD_0	
cam_TR_BD_0	cam_TR_BD_0	

Product

Table 1697: Properties of each product.

Id	Name	SBO
cam_TR_BD_0	cam_TR_BD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{564} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_TT_BD_0}] - \text{k_R2T_C1} \cdot [\text{cam_TR_BD_0}]) \quad (1181)$$

7.565 Reaction Transition_from.cam_TT_CD_0_to.cam_RT_CD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_CD_0 to cam_RT_CD_0

Reaction equation



Reactant

Table 1698: Properties of each reactant.

Id	Name	SBO
cam_TT_CD_0	cam_TT_CD_0	

Modifiers

Table 1699: Properties of each modifier.

Id	Name	SBO
cam_TT_CD_0	cam_TT_CD_0	
cam_RT_CD_0	cam_RT_CD_0	

Product

Table 1700: Properties of each product.

Id	Name	SBO
cam_RT_CD_0	cam_RT_CD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{565} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R.N}} \cdot [\text{cam_TT_CD_0}] - k_{\text{R2T.N}} \cdot [\text{cam_RT_CD_0}]) \quad (1183)$$

7.566 Reaction Transition_from.cam_TT_CD_0_to.cam_TR_CD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_CD_0 to cam_TR_CD_0

Reaction equation



Reactant

Table 1701: Properties of each reactant.

Id	Name	SBO
cam_TT_CD_0	cam_TT_CD_0	

Modifiers

Table 1702: Properties of each modifier.

Id	Name	SBO
cam_TT_CD_0	cam_TT_CD_0	
cam_TR_CD_0	cam_TR_CD_0	

Product

Table 1703: Properties of each product.

Id	Name	SBO
cam_TR_CD_0	cam_TR_CD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{566} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C2} \cdot [\text{cam_TT_CD_0}] - \text{k_R2T_C2} \cdot [\text{cam_TR_CD_0}]) \quad (1185)$$

7.567 Reaction Transition_from_cam_TT_ABC_0_to_cam_RT_ABC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_ABC_0 to cam_RT_ABC_0

Reaction equation



Reactant

Table 1704: Properties of each reactant.

Id	Name	SBO
cam_TT_ABC_0	cam_TT_ABC_0	

Modifiers

Table 1705: Properties of each modifier.

Id	Name	SBO
cam_TT_ABC_0	cam_TT_ABC_0	
cam_RT_ABC_0	cam_RT_ABC_0	

Product

Table 1706: Properties of each product.

Id	Name	SBO
cam_RT_ABC_0	cam_RT_ABC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{567} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N2} \cdot [\text{cam_TT_ABC_0}] - \text{k_R2T_N2} \cdot [\text{cam_RT_ABC_0}]) \quad (1187)$$

7.568 Reaction Transition_from.cam_TT_ABC_0_to.cam_TR_ABC_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_ABC_0 to cam_TR_ABC_0

Reaction equation



Reactant

Table 1707: Properties of each reactant.

Id	Name	SBO
cam_TT_ABC_0	cam_TT_ABC_0	

Modifiers

Table 1708: Properties of each modifier.

Id	Name	SBO
cam_TT_ABC_0	cam_TT_ABC_0	
cam_TR_ABC_0	cam_TR_ABC_0	

Product

Table 1709: Properties of each product.

Id	Name	SBO
cam_TR_ABC_0	cam_TR_ABC_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{568} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_TT_ABC_0}] - \text{k_R2T_C1} \cdot [\text{cam_TR_ABC_0}]) \quad (1189)$$

7.569 Reaction Transition_from.cam_TT_ABD_0_to.cam_RT_ABD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_ABD_0 to cam_RT_ABD_0

Reaction equation



Reactant

Table 1710: Properties of each reactant.

Id	Name	SBO
cam_TT_ABD_0	cam_TT_ABD_0	

Modifiers

Table 1711: Properties of each modifier.

Id	Name	SBO
cam_TT_ABD_0	cam_TT_ABD_0	
cam_RT_ABD_0	cam_RT_ABD_0	

Product

Table 1712: Properties of each product.

Id	Name	SBO
cam_RT_ABD_0	cam_RT_ABD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{569} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R_N2}} \cdot [\text{cam_TT_ABD_0}] - k_{\text{R2T_N2}} \cdot [\text{cam_RT_ABD_0}]) \quad (1191)$$

7.570 Reaction Transition_from.cam_TT_ABD_0_to.cam_TR_ABD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_ABD_0 to cam_TR_ABD_0

Reaction equation



Reactant

Table 1713: Properties of each reactant.

Id	Name	SBO
cam_TT_ABD_0	cam_TT_ABD_0	

Modifiers

Table 1714: Properties of each modifier.

Id	Name	SBO
cam_TT_ABD_0	cam_TT_ABD_0	
cam_TR_ABD_0	cam_TR_ABD_0	

Product

Table 1715: Properties of each product.

Id	Name	SBO
cam_TR_ABD_0	cam_TR_ABD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{570} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C1} \cdot [\text{cam_TT_ABD_0}] - \text{k_R2T_C1} \cdot [\text{cam_TR_ABD_0}]) \quad (1193)$$

7.571 Reaction Transition_from.cam_TT_ACD_0_to.cam_RT_ACD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_ACD_0 to cam_RT_ACD_0

Reaction equation



Reactant

Table 1716: Properties of each reactant.

Id	Name	SBO
cam_TT_ACD_0	cam_TT_ACD_0	

Modifiers

Table 1717: Properties of each modifier.

Id	Name	SBO
cam_TT_ACD_0	cam_TT_ACD_0	
cam_RT_ACD_0	cam_RT_ACD_0	

Product

Table 1718: Properties of each product.

Id	Name	SBO
cam_RT_ACD_0	cam_RT_ACD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{571} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TT_ACD_0}] - \text{k_R2T_N1} \cdot [\text{cam_RT_ACD_0}]) \quad (1195)$$

7.572 Reaction Transition_from.cam_TT_ACD_0_to.cam_TR_ACD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_ACD_0 to cam_TR_ACD_0

Reaction equation



Reactant

Table 1719: Properties of each reactant.

Id	Name	SBO
cam_TT_ACD_0	cam_TT_ACD_0	

Modifiers

Table 1720: Properties of each modifier.

Id	Name	SBO
cam_TT_ACD_0	cam_TT_ACD_0	
cam_TR_ACD_0	cam_TR_ACD_0	

Product

Table 1721: Properties of each product.

Id	Name	SBO
cam_TR_ACD_0	cam_TR_ACD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{572} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C2} \cdot [\text{cam_TT_ACD_0}] - \text{k_R2T_C2} \cdot [\text{cam_TR_ACD_0}]) \quad (1197)$$

7.573 Reaction Transition_from.cam_TT_BCD_0_to.cam_RT_BCD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_BCD_0 to cam_RT_BCD_0

Reaction equation



Reactant

Table 1722: Properties of each reactant.

Id	Name	SBO
cam_TT_BCD_0	cam_TT_BCD_0	

Modifiers

Table 1723: Properties of each modifier.

Id	Name	SBO
cam_TT_BCD_0	cam_TT_BCD_0	
cam_RT_BCD_0	cam_RT_BCD_0	

Product

Table 1724: Properties of each product.

Id	Name	SBO
cam_RT_BCD_0	cam_RT_BCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{573} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N1} \cdot [\text{cam_TT_BCD_0}] - \text{k_R2T_N1} \cdot [\text{cam_RT_BCD_0}]) \quad (1199)$$

7.574 Reaction Transition_from.cam_TT_BCD_0_to.cam_TR_BCD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_BCD_0 to cam_TR_BCD_0

Reaction equation



Reactant

Table 1725: Properties of each reactant.

Id	Name	SBO
cam_TT_BCD_0	cam_TT_BCD_0	

Modifiers

Table 1726: Properties of each modifier.

Id	Name	SBO
cam_TT_BCD_0	cam_TT_BCD_0	
cam_TR_BCD_0	cam_TR_BCD_0	

Product

Table 1727: Properties of each product.

Id	Name	SBO
cam_TR_BCD_0	cam_TR_BCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{574} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_C2} \cdot [\text{cam_TT_BCD_0}] - \text{k_R2T_C2} \cdot [\text{cam_TR_BCD_0}]) \quad (1201)$$

7.575 Reaction Transition_from.cam_TT_ABCD_0_to.cam_RT_ABCD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_ABCD_0 to cam_RT_ABCD_0

Reaction equation



Reactant

Table 1728: Properties of each reactant.

Id	Name	SBO
cam_TT_ABCD_0	cam_TT_ABCD_0	

Modifiers

Table 1729: Properties of each modifier.

Id	Name	SBO
cam_TT_ABCD_0	cam_TT_ABCD_0	
cam_RT_ABCD_0	cam_RT_ABCD_0	

Product

Table 1730: Properties of each product.

Id	Name	SBO
cam_RT_ABCD_0	cam_RT_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{575} = \text{vol}(\text{cytosol}) \cdot (\text{k_T2R_N2} \cdot [\text{cam_TT_ABCD_0}] - \text{k_R2T_N2} \cdot [\text{cam_RT_ABCD_0}]) \quad (1203)$$

7.576 Reaction Transition_from.cam_TT_ABCD_0_to.cam_TR_ABCD_0

This is a reversible reaction of one reactant forming one product influenced by two modifiers.

Name Transition from cam_TT_ABCD_0 to cam_TR_ABCD_0

Reaction equation



Reactant

Table 1731: Properties of each reactant.

Id	Name	SBO
cam_TT_ABCD_0	cam_TT_ABCD_0	

Modifiers

Table 1732: Properties of each modifier.

Id	Name	SBO
cam_TT_ABCD_0	cam_TT_ABCD_0	
cam_TR_ABCD_0	cam_TR_ABCD_0	

Product

Table 1733: Properties of each product.

Id	Name	SBO
cam_TR_ABCD_0	cam_TR_ABCD_0	

Kinetic Law

Derived unit contains undeclared units

$$v_{576} = \text{vol}(\text{cytosol}) \cdot (k_{\text{T2R}_C2} \cdot [\text{cam_TT_ABCD_0}] - k_{\text{R2T}_C2} \cdot [\text{cam_TR_ABCD_0}]) \quad (1205)$$

8 Derived Rate Equations

When interpreted as an ordinary differential equation framework, this model implies the following set of equations for the rates of change of each species.

Identifiers for kinetic laws highlighted in gray cannot be verified to evaluate to units of SBML substance per time. As a result, some SBML interpreters may not be able to verify the consistency of the units on quantities in the model. Please check if

- parameters without an unit definition are involved or
- volume correction is necessary because the hasOnlySubstanceUnits flag may be set to false and spacialDimensions > 0 for certain species.

8.1 Species cam_RR_0_0

Name cam_RR_0_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_0_0, tbp_binding_to_cam_RR_0_0, ca_binding_to_cam_RR_0_0_on_site_A, ca_binding_to_cam_RR_0_0_on_site_B, ca_binding_to_cam_RR_0_0_on_site_C, ca_binding_to_cam_RR_0_0_on_site_D and as a product in Transition_from_cam_RT_0_0_to_cam_RR_0_0, Transition_from_cam_TR_0_0_to_cam_RR_0_0 and as a modifier in rbp_binding_to_cam_RR_0_0, tbp_binding_to_cam_RR_0_0, ca_binding_to_cam_RR_0_0_on_site_A, ca_binding_to_cam_RR_0_0_on_site_B, ca_binding_to_cam_RR_0_0_on_site_C, ca_binding_to_cam_RR_0_0_on_site_D, Transition_from_cam_RT_0_0_to_cam_RR_0_0, Transition_from_cam_TR_0_0_to_cam_RR_0_0).

$$\frac{d}{dt}\text{cam_RR_0_0} = v_{513} + v_{529} - v_1 - v_2 - v_3 - v_8 - v_{13} - v_{18} \quad (1206)$$

8.2 Species cam_RR_0_rbp

Name cam_RR_0_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_0_rbp_on_site_A, ca_binding_to_cam_RR_0_rbp_on_site_B, ca_binding_to_cam_RR_0_rbp_on_site_C, ca_binding_to_cam_RR_0_rbp_on_site_D and as a product in rbp_binding_to_cam_RR_0_0 and as a modifier in rbp_binding_to_cam_RR_0_0, ca_binding_to_cam_RR_0_rbp_on_site_A, ca_binding_to_cam_RR_0_rbp_on_site_B, ca_binding_to_cam_RR_0_rbp_on_site_C, ca_binding_to_cam_RR_0_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_RR_0_rbp} = v_1 - v_5 - v_{10} - v_{15} - v_{20} \quad (1207)$$

8.3 Species cam_RR_0_tbp

Name cam_RR_0_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_0_tbp_on_site_A, ca_binding_to_cam_RR_0_tbp_on_site_B, ca_binding_to_cam_RR_0_tbp_on_site_C, ca_binding_to_cam_RR_0_tbp_on_site_D and as a product in tbp_binding_to_cam_RR_0_0 and as a modifier in tbp_binding_to_cam_RR_0_0, ca_binding_to_cam_RR_0_tbp_on_site_A, ca_binding_to_cam_RR_0_tbp_on_site_B, ca_binding_to_cam_RR_0_tbp_on_site_C, ca_binding_to_cam_RR_0_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_RR_0_tbp} = v_2 - v_7 - v_{12} - v_{17} - v_{22} \quad (1208)$$

8.4 Species cam_RR_A_0

Name cam_RR_A_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_A_0, tbp_binding_to_cam_RR_A_0, ca_binding_to_cam_RR_A_0_on_site_B, ca_binding_to_cam_RR_A_0_on_site_C, ca_binding_to_cam_RR_A_0_on_site_D and as a product in ca_binding_to_cam_RR_0_0_on_site_A, Transition_from_cam_RT_A_0_to_cam_RR_A_0, Transition_from_cam_TR_A_0_to_cam_RR_A_0 and as a modifier in ca_binding_to_cam_RR_0_0_on_site_A, rbp_binding_to_cam_RR_A_0, tbp_binding_to_cam_RR_A_0, ca_binding_to_cam_RR_A_0_on_site_B, ca_binding_to_cam_RR_A_0_on_site_C, ca_binding_to_cam_RR_A_0_on_site_D, Transition_from_cam_RT_A_0_to_cam_RR_A_0, Transition_from_cam_TR_A_0_to_cam_RR_A_0).

$$\frac{d}{dt}\text{cam_RR_A_0} = v_3 + v_{514} + v_{530} - v_4 - v_6 - v_{24} - v_{32} - v_{40} \quad (1209)$$

8.5 Species cam_RR_A_rbp

Name cam_RR_A_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_A_rbp_on_site_B, ca_binding_to_cam_RR_A_rbp_on_site_C, ca_binding_to_cam_RR_A_rbp_on_site_D and as a product in rbp_binding_to_cam_RR_A_0, ca_binding_to_cam_RR_0_rbp_on_site_A and as a modifier in rbp_binding_to_cam_RR_A_0, ca_binding_to_cam_RR_0_rbp_on_site_A, ca_binding_to_cam_RR_A_rbp_on_site_B, ca_binding_to_cam_RR_A_rbp_on_site_C, ca_binding_to_cam_RR_A_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_RR_A_rbp} = v_4 + v_5 - v_{27} - v_{35} - v_{43} \quad (1210)$$

8.6 Species cam_RR_A_tbp

Name cam_RR_A_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_A_tbp_on_site_B, ca_binding_to_cam_RR_A_tbp_on_site_C, ca_binding_to_cam_RR_A_tbp_on_site_D and as a product in tbp_binding_to_cam_RR_A_0, ca_binding_to_cam_RR_0_tbp_on_site_A and as a modifier in tbp_binding_to_cam_RR_A_0, ca_binding_to_cam_RR_0_tbp_on_site_A, ca_binding_to_cam_RR_A_tbp_on_site_B, ca_binding_to_cam_RR_A_tbp_on_site_C, ca_binding_to_cam_RR_A_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_RR_A_tbp} = v_6 + v_7 - v_{30} - v_{38} - v_{46} \quad (1211)$$

8.7 Species cam_RR_B_0

Name cam_RR_B_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_B_0, tbp_binding_to_cam_RR_B_0, ca_binding_to_cam_RR_B_0_on_site_A, ca_binding_to_cam_RR_B_0_on_site_C, ca_binding_to_cam_RR_B_0_on_site_D and as a product in ca_binding_to_cam_RR_0_0_on_site_B, Transition_from_cam_RT_B_0_to_cam_RR_B_0, Transition_from_cam_TR_B_0_to_cam_RR_B_0 and as a modifier in ca_binding_to_cam_RR_0_0_on_site_B, rbp_binding_to_cam_RR_B_0, tbp_binding_to_cam_RR_B_0, ca_binding_to_cam_RR_B_0_on_site_A, ca_binding_to_cam_RR_B_0_on_site_C, ca_binding_to_cam_RR_B_0_on_site_D, Transition_from_cam_RT_B_0_to_cam_RR_B_0, Transition_from_cam_TR_B_0_to_cam_RR_B_0).

$$\frac{d}{dt} \text{cam_RR_B_0} = v_8 + v_{515} + v_{531} - v_9 - v_{11} - v_{23} - v_{48} - v_{56} \quad (1212)$$

8.8 Species cam_RR_B_rbp

Name cam_RR_B_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_B_rbp_on_site_A, ca_binding_to_cam_RR_B_rbp_on_site_C, ca_binding_to_cam_RR_B_rbp_on_site_D and as a product in rbp_binding_to_cam_RR_B_0, ca_binding_to_cam_RR_0_rbp_on_site_B and as a modifier in rbp_binding_to_cam_RR_B_0, ca_binding_to_cam_RR_0_rbp_on_site_B, ca_binding_to_cam_RR_B_rbp_on_site_A, ca_binding_to_cam_RR_B_rbp_on_site_C, ca_binding_to_cam_RR_B_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_RR_B_rbp} = v_9 + v_{10} - v_{26} - v_{51} - v_{59} \quad (1213)$$

8.9 Species cam_RR_B_tbp

Name cam_RR_B_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_B_tbp_on_site_A, ca_binding_to_cam_RR_B_tbp_on_site_C, ca_binding_to_cam_RR_B_tbp_on_site_D and as a product in tbp_binding_to_cam_RR_B_0, ca_binding_to_cam_RR_0_tbp_on_site_B and as a modifier in tbp_binding_to_cam_RR_B_0, ca_binding_to_cam_RR_0_tbp_on_site_B, ca_binding_to_cam_RR_B_tbp_on_site_A, ca_binding_to_cam_RR_B_tbp_on_site_C, ca_binding_to_cam_RR_B_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_RR_B_tbp} = v_{11} + v_{12} - v_{29} - v_{54} - v_{62} \quad (1214)$$

8.10 Species cam_RR_C_0

Name cam_RR_C_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_C_0, tbp_binding_to_cam_RR_C_0, ca_binding_to_cam_RR_C_0_on_site_A, ca_binding_to_cam_RR_C_0_on_site_B, ca_binding_to_cam_RR_C_0_on_site_D and as a product in ca_binding_to_cam_RR_C_0_on_site_C, Transition_from_cam_RT_C_0_to_cam_RR_C_0, Transition_from_cam_TR_C_0_to_cam_RR_C_0 and as a modifier in ca_binding_to_cam_RR_C_0_on_site_C, rbp_binding_to_cam_RR_C_0, tbp_binding_to_cam_RR_C_0, ca_binding_to_cam_RR_C_0_on_site_A, ca_binding_to_cam_RR_C_0_on_site_B, ca_binding_to_cam_RR_C_0_on_site_D, Transition_from_cam_RT_C_0_to_cam_RR_C_0, Transition_from_cam_TR_C_0_to_cam_RR_C_0).

$$\frac{d}{dt}\text{cam_RR_C_0} = v_{13} + v_{516} + v_{532} - v_{14} - v_{16} - v_{31} - v_{47} - v_{64} \quad (1215)$$

8.11 Species cam_RR_C_rbp

Name cam_RR_C_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_C_rbp_on_site_A, ca_binding_to_cam_RR_C_rbp_on_site_B, ca_binding_to_cam_RR_C_rbp_on_site_D and as a product in rbp_binding_to_cam_RR_C_0, ca_binding_to_cam_RR_C_rbp_on_site_C and as a modifier in rbp_binding_to_cam_RR_C_0, ca_binding_to_cam_RR_C_rbp_on_site_C, ca_binding_to_cam_RR_C_rbp_on_site_A, ca_binding_to_cam_RR_C_rbp_on_site_B, ca_binding_to_cam_RR_C_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_RR_C_rbp} = v_{14} + v_{15} - v_{34} - v_{50} - v_{67} \quad (1216)$$

8.12 Species cam_RR_C_tbp

Name cam_RR_C_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_C_tbp_on_site_A, ca_binding_to_cam_RR_C_tbp_on_site_B, ca_binding_to_cam_RR_C_tbp_on_site_D and as a product in tbp_binding_to_cam_RR_C_0, ca_binding_to_cam_RR_C_tbp_on_site_C and as a modifier in tbp_binding_to_cam_RR_C_0, ca_binding_to_cam_RR_C_tbp_on_site_C, ca_binding_to_cam_RR_C_tbp_on_site_A, ca_binding_to_cam_RR_C_tbp_on_site_B, ca_binding_to_cam_RR_C_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_RR_C_tbp} = v_{16} + v_{17} - v_{37} - v_{53} - v_{70} \quad (1217)$$

8.13 Species cam_RR_D_0

Name cam_RR_D_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_D_0, tbp_binding_to_cam_RR_D_0, ca_binding_to_cam_RR_D_0_on_site_A, ca_binding_to_cam_RR_D_0_on_site_B, ca_binding_to_cam_RR_D_0_on_site_C and as a product in ca_binding_to_cam_RR_D_0_0_on_site_D, Transition_from_cam_RT_D_0_to_cam_RR_D_0, Transition_from_cam_TR_D_0_to_cam_RR_D_0 and as a modifier in ca_binding_to_cam_RR_D_0_0_on_site_D, rbp_binding_to_cam_RR_D_0, tbp_binding_to_cam_RR_D_0, ca_binding_to_cam_RR_D_0_on_site_A, ca_binding_to_cam_RR_D_0_on_site_B, ca_binding_to_cam_RR_D_0_on_site_C, Transition_from_cam_RT_D_0_to_cam_RR_D_0, Transition_from_cam_TR_D_0_to_cam_RR_D_0).

$$\frac{d}{dt} \text{cam_RR_D_0} = v_{18} + v_{517} + v_{533} - v_{19} - v_{21} - v_{39} - v_{55} - v_{63} \quad (1218)$$

8.14 Species cam_RR_D_rbp

Name cam_RR_D_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_D_rbp_on_site_A, ca_binding_to_cam_RR_D_rbp_on_site_B, ca_binding_to_cam_RR_D_rbp_on_site_C and as a product in rbp_binding_to_cam_RR_D_0, ca_binding_to_cam_RR_D_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RR_D_0, ca_binding_to_cam_RR_D_rbp_on_site_D, ca_binding_to_cam_RR_D_rbp_on_site_A, ca_binding_to_cam_RR_D_rbp_on_site_B, ca_binding_to_cam_RR_D_rbp_on_site_C).

$$\frac{d}{dt} \text{cam_RR_D_rbp} = v_{19} + v_{20} - v_{42} - v_{58} - v_{66} \quad (1219)$$

8.15 Species cam_RR_D_tbp

Name cam_RR_D_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_D_tbp_on_site_A, ca_binding_to_cam_RR_D_tbp_on_site_B, ca_binding_to_cam_RR_D_tbp_on_site_C and as a product in tbp_binding_to_cam_RR_D_0, ca_binding_to_cam_RR_D_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RR_D_0, ca_binding_to_cam_RR_D_tbp_on_site_D, ca_binding_to_cam_RR_D_tbp_on_site_A, ca_binding_to_cam_RR_D_tbp_on_site_B, ca_binding_to_cam_RR_D_tbp_on_site_C).

$$\frac{d}{dt} \text{cam_RR_D_tbp} = v_{21} + v_{22} - v_{45} - v_{61} - v_{69} \quad (1220)$$

8.16 Species cam_RR_AB_0

Name cam_RR_AB_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_AB_0, tbp_binding_to_cam_RR_AB_0, ca_binding_to_cam_RR_AB_0_on_site_C, ca_binding_to_cam_RR_AB_0_on_site_D and as a product in ca_binding_to_cam_RR_B_0_on_site_A, ca_binding_to_cam_RR_A_0_on_site_B, Transition_from_cam_RT_AB_0_to_cam_RR_AB_0, Transition_from_cam_TR_AB_0_to_cam_RR_AB_0 and as a modifier in ca_binding_to_cam_RR_B_0_on_site_A, ca_binding_to_cam_RR_A_0_on_site_B, rbp_binding_to_cam_RR_AB_0, tbp_binding_to_cam_RR_AB_0, ca_binding_to_cam_RR_AB_0_on_site_C, ca_binding_to_cam_RR_AB_0_on_site_D, Transition_from_cam_RT_AB_0_to_cam_RR_AB_0, Transition_from_cam_TR_AB_0_to_cam_RR_AB_0).

$$\frac{d}{dt} \text{cam.RR.AB.0} = v_{23} + v_{24} + v_{518} + v_{534} - v_{25} - v_{28} - v_{73} - v_{84} \quad (1221)$$

8.17 Species cam_RR_AB_rbp

Name cam_RR_AB_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_AB_rbp_on_site_C, ca_binding_to_cam_RR_AB_rbp_on_site_D and as a product in rbp_binding_to_cam_RR_AB_0, ca_binding_to_cam_RR_B_rbp_on_site_A, ca_binding_to_cam_RR_A_rbp_on-site_B and as a modifier in rbp_binding_to_cam_RR_AB_0, ca_binding_to_cam_RR_B_rbp_on-site_A, ca_binding_to_cam_RR_A_rbp_on-site_B, ca_binding_to_cam_RR_AB_rbp_on-site_C, ca_binding_to_cam_RR_AB_rbp_on-site_D).

$$\frac{d}{dt} \text{cam.RR.AB.rbp} = v_{25} + v_{26} + v_{27} - v_{77} - v_{88} \quad (1222)$$

8.18 Species cam_RR_AB_tbp

Name cam_RR_AB_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_AB_tbp_on-site_C, ca_binding_to_cam_RR_AB_tbp_on-site_D and as a product in tbp_binding_to_cam_RR_AB_0, ca_binding_to_cam_RR_B_tbp_on-site_A, ca_binding_to_cam_RR_A_tbp_on-site_B and as a modifier in tbp_binding_to_cam_RR_AB_0, ca_binding_to_cam_RR_B_tbp_on-site_A, ca_binding_to_cam_RR_A_tbp_on-site_B, ca_binding_to_cam_RR_AB_tbp_on-site_C, ca_binding_to_cam_RR_AB_tbp_on-site_D).

$$\frac{d}{dt} \text{cam.RR.AB.tbp} = v_{28} + v_{29} + v_{30} - v_{81} - v_{92} \quad (1223)$$

8.19 Species cam_RR_AC_0

Name cam_RR_AC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_AC_0, tbp_binding_to_cam_RR_AC_0, ca_binding_to_cam_RR_AC_0_on_site_B, ca_binding_to_cam_RR_AC_0_on_site_D and as a product in ca_binding_to_cam_RR_C_0_on_site_A, ca_binding_to_cam_RR_A_0_on_site_C, Transition_from_cam_RT_AC_0_to_cam_RR_AC_0, Transition_from_cam_TR_AC_0_to_cam_RR_AC_0 and as a modifier in ca_binding_to_cam_RR_C_0_on_site_A, ca_binding_to_cam_RR_A_0_on_site_C, rbp_binding_to_cam_RR_AC_0, tbp_binding_to_cam_RR_AC_0, ca_binding_to_cam_RR_AC_0_on_site_B, ca_binding_to_cam_RR_AC_0_on_site_D, Transition_from_cam_RT_AC_0_to_cam_RR_AC_0, Transition_from_cam_TR_AC_0_to_cam_RR_AC_0).

$$\frac{d}{dt} \text{cam.RR.AC.0} = v_{31} + v_{32} + v_{519} + v_{535} - v_{33} - v_{36} - v_{72} - v_{95} \quad (1224)$$

8.20 Species cam_RR_AC_rbp

Name cam_RR_AC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_AC_rbp_on_site_B, ca_binding_to_cam_RR_AC_rbp_on_site_D and as a product in rbp_binding_to_cam_RR_AC_0, ca_binding_to_cam_RR_C_rbp_on_site_A, ca_binding_to_cam_RR_A_rbp_on-site_C and as a modifier in rbp_binding_to_cam_RR_AC_0, ca_binding_to_cam_RR_C_rbp_on-site_A, ca_binding_to_cam_RR_A_rbp_on-site_C, ca_binding_to_cam_RR_AC_rbp_on-site_B, ca_binding_to_cam_RR_AC_rbp_on-site_D).

$$\frac{d}{dt} \text{cam.RR.AC.rbp} = v_{33} + v_{34} + v_{35} - v_{76} - v_{99} \quad (1225)$$

8.21 Species cam_RR_AC_tbp

Name cam_RR_AC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_AC_tbp_on-site_B, ca_binding_to_cam_RR_AC_tbp_on-site_D and as a product in tbp_binding_to_cam_RR_AC_0, ca_binding_to_cam_RR_C_tbp_on-site_A, ca_binding_to_cam_RR_A_tbp_on-site_C and as a modifier in tbp_binding_to_cam_RR_AC_0, ca_binding_to_cam_RR_C_tbp_on-site_A, ca_binding_to_cam_RR_A_tbp_on-site_C, ca_binding_to_cam_RR_AC_tbp_on-site_B, ca_binding_to_cam_RR_AC_tbp_on-site_D).

$$\frac{d}{dt} \text{cam.RR.AC.tbp} = v_{36} + v_{37} + v_{38} - v_{80} - v_{103} \quad (1226)$$

8.22 Species cam_RR_AD_0

Name cam_RR_AD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_AD_0, tbp_binding_to_cam_RR_AD_0, ca_binding_to_cam_RR_AD_0_on_site_B, ca_binding_to_cam_RR_AD_0_on_site_C and as a product in ca_binding_to_cam_RR_D_0_on_site_A, ca_binding_to_cam_RR_A_0_on_site_D, Transition_from_cam_RT_AD_0_to_cam_RR_AD_0, Transition_from_cam_TR_AD_0_to_cam_RR_AD_0 and as a modifier in ca_binding_to_cam_RR_D_0_on_site_A, ca_binding_to_cam_RR_A_0_on_site_D, rbp_binding_to_cam_RR_AD_0, tbp_binding_to_cam_RR_AD_0, ca_binding_to_cam_RR_AD_0_on_site_B, ca_binding_to_cam_RR_AD_0_on_site_C, Transition_from_cam_RT_AD_0_to_cam_RR_AD_0, Transition_from_cam_TR_AD_0_to_cam_RR_AD_0).

$$\frac{d}{dt}\text{cam_RR_AD_0} = v_{39} + v_{40} + v_{520} + v_{536} - v_{41} - v_{44} - v_{83} - v_{94} \quad (1227)$$

8.23 Species cam_RR_AD_rbp

Name cam_RR_AD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_AD_rbp_on_site_B, ca_binding_to_cam_RR_AD_rbp_on_site_C and as a product in rbp_binding_to_cam_RR_AD_0, ca_binding_to_cam_RR_D_rbp_on_site_A, ca_binding_to_cam_RR_A_rbp_on-site_D and as a modifier in rbp_binding_to_cam_RR_AD_0, ca_binding_to_cam_RR_D_rbp_on-site_A, ca_binding_to_cam_RR_A_rbp_on-site_D, ca_binding_to_cam_RR_AD_rbp_on-site_B, ca_binding_to_cam_RR_AD_rbp_on-site_C).

$$\frac{d}{dt}\text{cam_RR_AD_rbp} = v_{41} + v_{42} + v_{43} - v_{87} - v_{98} \quad (1228)$$

8.24 Species cam_RR_AD_tbp

Name cam_RR_AD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_AD_tbp_on-site_B, ca_binding_to_cam_RR_AD_tbp_on-site_C and as a product in tbp_binding_to_cam_RR_AD_0, ca_binding_to_cam_RR_D_tbp_on-site_A, ca_binding_to_cam_RR_A_tbp_on-site_D and as a modifier in tbp_binding_to_cam_RR_AD_0, ca_binding_to_cam_RR_D_tbp_on-site_A, ca_binding_to_cam_RR_A_tbp_on-site_D, ca_binding_to_cam_RR_AD_tbp_on-site_B, ca_binding_to_cam_RR_AD_tbp_on-site_C).

$$\frac{d}{dt}\text{cam_RR_AD_tbp} = v_{44} + v_{45} + v_{46} - v_{91} - v_{102} \quad (1229)$$

8.25 Species cam_RR_BC_0

Name cam_RR_BC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_BC_0, tbp_binding_to_cam_RR_BC_0, ca_binding_to_cam_RR_BC_0_on_site_A, ca_binding_to_cam_RR_BC_0_on_site_D and as a product in ca_binding_to_cam_RR_C_0_on_site_B, ca_binding_to_cam_RR_B_0_on_site_C, Transition_from_cam_RT_BC_0_to_cam_RR_BC_0, Transition_from_cam_TR_BC_0_to_cam_RR_BC_0 and as a modifier in ca_binding_to_cam_RR_C_0_on_site_B, ca_binding_to_cam_RR_B_0_on_site_C, rbp_binding_to_cam_RR_BC_0, tbp_binding_to_cam_RR_BC_0, ca_binding_to_cam_RR_BC_0_on_site_A, ca_binding_to_cam_RR_BC_0_on_site_D, Transition_from_cam_RT_BC_0_to_cam_RR_BC_0, Transition_from_cam_TR_BC_0_to_cam_RR_BC_0).

$$\frac{d}{dt}\text{cam_RR_BC_0} = v_{47} + v_{48} + v_{521} + v_{537} - v_{49} - v_{52} - v_{71} - v_{106} \quad (1230)$$

8.26 Species cam_RR_BC_rbp

Name cam_RR_BC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_BC_rbp_on_site_A, ca_binding_to_cam_RR_BC_rbp_on_site_D and as a product in rbp_binding_to_cam_RR_BC_0, ca_binding_to_cam_RR_C_rbp_on_site_B, ca_binding_to_cam_RR_B_rbp_on-site_C and as a modifier in rbp_binding_to_cam_RR_BC_0, ca_binding_to_cam_RR_C_rbp_on-site_B, ca_binding_to_cam_RR_B_rbp_on-site_C, ca_binding_to_cam_RR_BC_rbp_on-site_A, ca_binding_to_cam_RR_BC_rbp_on-site_D).

$$\frac{d}{dt}\text{cam_RR_BC_rbp} = v_{49} + v_{50} + v_{51} - v_{75} - v_{110} \quad (1231)$$

8.27 Species cam_RR_BC_tbp

Name cam_RR_BC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_BC_tbp_on-site_A, ca_binding_to_cam_RR_BC_tbp_on-site_D and as a product in tbp_binding_to_cam_RR_BC_0, ca_binding_to_cam_RR_C_tbp_on-site_B, ca_binding_to_cam_RR_B_tbp_on-site_C and as a modifier in tbp_binding_to_cam_RR_BC_0, ca_binding_to_cam_RR_C_tbp_on-site_B, ca_binding_to_cam_RR_B_tbp_on-site_C, ca_binding_to_cam_RR_BC_tbp_on-site_A, ca_binding_to_cam_RR_BC_tbp_on-site_D).

$$\frac{d}{dt}\text{cam_RR_BC_tbp} = v_{52} + v_{53} + v_{54} - v_{79} - v_{114} \quad (1232)$$

8.28 Species cam_RR_BD_0

Name cam_RR_BD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_BD_0, tbp_binding_to_cam_RR_BD_0, ca_binding_to_cam_RR_BD_0_on_site_A, ca_binding_to_cam_RR_BD_0_on_site_C and as a product in ca_binding_to_cam_RR_D_0_on_site_B, ca_binding_to_cam_RR_B_0_on_site_D, Transition_from_cam_RT_BD_0_to_cam_RR_BD_0, Transition_from_cam_TR_BD_0_to_cam_RR_BD_0 and as a modifier in ca_binding_to_cam_RR_D_0_on_site_B, ca_binding_to_cam_RR_B_0_on_site_D, rbp_binding_to_cam_RR_BD_0, tbp_binding_to_cam_RR_BD_0, ca_binding_to_cam_RR_BD_0_on_site_A, ca_binding_to_cam_RR_BD_0_on_site_C, Transition_from_cam_RT_BD_0_to_cam_RR_BD_0, Transition_from_cam_TR_BD_0_to_cam_RR_BD_0).

$$\frac{d}{dt}\text{cam_RR_BD_0} = v_{55} + v_{56} + v_{522} + v_{538} - v_{57} - v_{60} - v_{82} - v_{105} \quad (1233)$$

8.29 Species cam_RR_BD_rbp

Name cam_RR_BD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_BD_rbp_on_site_A, ca_binding_to_cam_RR_BD_rbp_on_site_C and as a product in rbp_binding_to_cam_RR_BD_0, ca_binding_to_cam_RR_D_rbp_on_site_B, ca_binding_to_cam_RR_B_rbp_on-site_D and as a modifier in rbp_binding_to_cam_RR_BD_0, ca_binding_to_cam_RR_D_rbp_on-site_B, ca_binding_to_cam_RR_B_rbp_on-site_D, ca_binding_to_cam_RR_BD_rbp_on-site_A, ca_binding_to_cam_RR_BD_rbp_on-site_C).

$$\frac{d}{dt}\text{cam_RR_BD_rbp} = v_{57} + v_{58} + v_{59} - v_{86} - v_{109} \quad (1234)$$

8.30 Species cam_RR_BD_tbp

Name cam_RR_BD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_BD_tbp_on-site_A, ca_binding_to_cam_RR_BD_tbp_on-site_C and as a product in tbp_binding_to_cam_RR_BD_0, ca_binding_to_cam_RR_D_tbp_on-site_B, ca_binding_to_cam_RR_B_tbp_on-site_D and as a modifier in tbp_binding_to_cam_RR_BD_0, ca_binding_to_cam_RR_D_tbp_on-site_B, ca_binding_to_cam_RR_B_tbp_on-site_D, ca_binding_to_cam_RR_BD_tbp_on-site_A, ca_binding_to_cam_RR_BD_tbp_on-site_C).

$$\frac{d}{dt}\text{cam_RR_BD_tbp} = v_{60} + v_{61} + v_{62} - v_{90} - v_{113} \quad (1235)$$

8.31 Species cam_RR_CD_0

Name cam_RR_CD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_CD_0, tbp_binding_to_cam_RR_CD_0, ca_binding_to_cam_RR_CD_0_on_site_A, ca_binding_to_cam_RR_CD_0_on_site_B and as a product in ca_binding_to_cam_RR_D_0_on_site_C, ca_binding_to_cam_RR_C_0_on_site_D, Transition_from_cam_RT_CD_0_to_cam_RR_CD_0, Transition_from_cam_TR_CD_0_to_cam_RR_CD_0 and as a modifier in ca_binding_to_cam_RR_D_0_on_site_C, ca_binding_to_cam_RR_C_0_on_site_D, rbp_binding_to_cam_RR_CD_0, tbp_binding_to_cam_RR_CD_0, ca_binding_to_cam_RR_CD_0_on_site_A, ca_binding_to_cam_RR_CD_0_on_site_B, Transition_from_cam_RT_CD_0_to_cam_RR_CD_0, Transition_from_cam_TR_CD_0_to_cam_RR_CD_0).

$$\frac{d}{dt}\text{cam_RR_CD_0} = v_{63} + v_{64} + v_{523} + v_{539} - v_{65} - v_{68} - v_{93} - v_{104} \quad (1236)$$

8.32 Species cam_RR_CD_rbp

Name cam_RR_CD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_CD_rbp_on_site_A, ca_binding_to_cam_RR_CD_rbp_on_site_B and as a product in rbp_binding_to_cam_RR_CD_0, ca_binding_to_cam_RR_D_rbp_on_site_C, ca_binding_to_cam_RR_C_rbp_on-site_D and as a modifier in rbp_binding_to_cam_RR_CD_0, ca_binding_to_cam_RR_D_rbp_on-site_C, ca_binding_to_cam_RR_C_rbp_on-site_D, ca_binding_to_cam_RR_CD_rbp_on-site_A, ca_binding_to_cam_RR_CD_rbp_on-site_B).

$$\frac{d}{dt}\text{cam_RR_CD_rbp} = v_{65} + v_{66} + v_{67} - v_{97} - v_{108} \quad (1237)$$

8.33 Species cam_RR_CD_tbp

Name cam_RR_CD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_CD_tbp_on-site_A, ca_binding_to_cam_RR_CD_tbp_on-site_B and as a product in tbp_binding_to_cam_RR_CD_0, ca_binding_to_cam_RR_D_tbp_on-site_C, ca_binding_to_cam_RR_C_tbp_on-site_D and as a modifier in tbp_binding_to_cam_RR_CD_0, ca_binding_to_cam_RR_D_tbp_on-site_C, ca_binding_to_cam_RR_C_tbp_on-site_D, ca_binding_to_cam_RR_CD_tbp_on-site_A, ca_binding_to_cam_RR_CD_tbp_on-site_B).

$$\frac{d}{dt}\text{cam_RR_CD_tbp} = v_{68} + v_{69} + v_{70} - v_{101} - v_{112} \quad (1238)$$

8.34 Species cam_RR_ABC_0

Name cam_RR_ABC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_ABC_0, tbp_binding_to_cam_RR_ABC_0, ca_binding_to_cam_RR_ABC_0_on_site_D and as a product in ca_binding_to_cam_RR_BC_0_on_site_A, ca_binding_to_cam_RR_AC_0_on_site_B, ca_binding_to_cam_RR_AB_0_on_site_C, Transition_from_cam_RT_ABC_0_to_cam_RR_ABC_0, Transition_from_cam_TR_ABC_0_to_cam_RR_ABC_0 and as a modifier in ca_binding_to_cam_RR_BC_0_on_site_A, ca_binding_to_cam_RR_AC_0_on_site_B, ca_binding_to_cam_RR_AB_0_on_site_C, rbp_binding_to_cam_RR_ABC_0, tbp_binding_to_cam_RR_ABC_0, ca_binding_to_cam_RR_ABC_0_on_site_D, Transition_from_cam_RT_ABC_0_to_cam_RR_ABC_0, Transition_from_cam_TR_ABC_0_to_cam_RR_ABC_0).

$$\frac{d}{dt}\text{cam_RR_ABC_0} = v_{71} + v_{72} + v_{73} + v_{524} + v_{540} - v_{74} - v_{78} - v_{118} \quad (1239)$$

8.35 Species cam_RR_ABC_rbp

Name cam_RR_ABC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_ABC_rbp_on_site_D and as a product in rbp_binding_to_cam_RR_ABC_0, ca_binding_to_cam_RR_BC_rbp_on_site_A, ca_binding_to_cam_RR_AC_rbp_on_site_B, ca_binding_to_cam_RR_AB_rbp_on_site_C and as a modifier in rbp_binding_to_cam_RR_ABC_0, ca_binding_to_cam_RR_BC_rbp_on_site_A, ca_binding_to_cam_RR_AC_rbp_on_site_B, ca_binding_to_cam_RR_AB_rbp_on_site_C, ca_binding_to_cam_RR_ABC_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_RR_ABC_rbp} = v_{74} + v_{75} + v_{76} + v_{77} - v_{123} \quad (1240)$$

8.36 Species cam_RR_ABC_tbp

Name cam_RR_ABC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_ABC_tbp_on_site_D and as a product in tbp_binding_to_cam_RR_ABC_0, ca_binding_to_cam_RR_BC_tbp_on_site_A, ca_binding_to_cam_RR_AC_tbp_on_site_B, ca_binding_to_cam_RR_AB_tbp_on_site_C and as a modifier in tbp_binding_to_cam_RR_ABC_0, ca_binding_to_cam_RR_BC_tbp_on_site_A, ca_binding_to_cam_RR_AC_tbp_on_site_B, ca_binding_to_cam_RR_AB_tbp_on_site_C, ca_binding_to_cam_RR_ABC_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_RR_ABC_tbp} = v_{78} + v_{79} + v_{80} + v_{81} - v_{128} \quad (1241)$$

8.37 Species cam_RR_ABD_0

Name cam_RR_ABD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_ABD_0, tbp_binding_to_cam_RR_ABD_0, ca_binding_to_cam_RR_ABD_0_on_site_C and as a product in ca_binding_to_cam_RR_BD_0_on_site_A, ca_binding_to_cam_RR_AD_0_on_site_B, ca_binding_to_cam_RR_AB_0_on_site_D, Transition_from_cam_RT_ABD_0_to_cam_RR_ABD_0, Transition_from_cam_TR_ABD_0_to_cam_RR_ABD_0 and as a modifier in ca_binding_to_cam_RR_BD_0_on_site_A, ca_binding_to_cam_RR_AD_0_on_site_B, ca_binding_to_cam_RR_AB_0_on_site_D, rbp_binding_to_cam_RR_ABD_0, tbp_binding_to_cam_RR_ABD_0, ca_binding_to_cam_RR_ABD_0_on_site_C, Transition_from_cam_RT_ABD_0_to_cam_RR_ABD_0, Transition_from_cam_TR_ABD_0_to_cam_RR_ABD_0).

$$\frac{d}{dt}\text{cam_RR_ABD_0} = v_{82} + v_{83} + v_{84} + v_{525} + v_{541} - v_{85} - v_{89} - v_{117} \quad (1242)$$

8.38 Species cam_RR_ABD_rbp

Name cam_RR_ABD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_ABD_rbp_on_site_C and as a product in rbp_binding_to_cam_RR_ABD_0, ca_binding_to_cam_RR_BD_rbp_on_site_A, ca_binding_to_cam_RR_AD_rbp_on_site_B, ca_binding_to_cam_RR_AB_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RR_ABD_0, ca_binding_to_cam_RR_BD_rbp_on_site_A, ca_binding_to_cam_RR_AD_rbp_on_site_B, ca_binding_to_cam_RR_AB_rbp_on_site_D, ca_binding_to_cam_RR_ABD_rbp_on_site_C).

$$\frac{d}{dt}\text{cam_RR_ABD_rbp} = v_{85} + v_{86} + v_{87} + v_{88} - v_{122} \quad (1243)$$

8.39 Species cam_RR_ABD_tbp

Name cam_RR_ABD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_ABD_tbp_on_site_C and as a product in tbp_binding_to_cam_RR_ABD_0, ca_binding_to_cam_RR_BD_tbp_on_site_A, ca_binding_to_cam_RR_AD_tbp_on_site_B, ca_binding_to_cam_RR_AB_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RR_ABD_0, ca_binding_to_cam_RR_BD_tbp_on_site_A, ca_binding_to_cam_RR_AD_tbp_on_site_B, ca_binding_to_cam_RR_AB_tbp_on_site_D, ca_binding_to_cam_RR_ABD_tbp_on_site_C).

$$\frac{d}{dt}\text{cam_RR_ABD_tbp} = v_{89} + v_{90} + v_{91} + v_{92} - v_{127} \quad (1244)$$

8.40 Species cam_RR_ACD_0

Name cam_RR_ACD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_ACD_0, tbp_binding_to_cam_RR_ACD_0, ca_binding_to_cam_RR_ACD_0_on_site_B and as a product in ca_binding_to_cam_RR_CD_0_on_site_A, ca_binding_to_cam_RR_AD_0_on_site_C, ca_binding_to_cam_RR_AC_0_on_site_D, Transition_from_cam_RT_ACD_0_to_cam_RR_ACD_0, Transition_from_cam_TR_ACD_0_to_cam_RR_ACD_0 and as a modifier in ca_binding_to_cam_RR_CD_0_on_site_A, ca_binding_to_cam_RR_AD_0_on_site_C, ca_binding_to_cam_RR_AC_0_on_site_D, rbp_binding_to_cam_RR_ACD_0, tbp_binding_to_cam_RR_ACD_0, ca_binding_to_cam_RR_ACD_0_on_site_B, Transition_from_cam_RT_ACD_0_to_cam_RR_ACD_0, Transition_from_cam_TR_ACD_0_to_cam_RR_ACD_0).

$$\frac{d}{dt}\text{cam_RR_ACD_0} = v_{93} + v_{94} + v_{95} + v_{526} + v_{542} - v_{96} - v_{100} - v_{116} \quad (1245)$$

8.41 Species cam_RR_ACD_rbp

Name cam_RR_ACD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_ACD_rbp_on_site_B and as a product in rbp_binding_to_cam_RR_ACD_0, ca_binding_to_cam_RR_CD_rbp_on_site_A, ca_binding_to_cam_RR_AD_rbp_on_site_C, ca_binding_to_cam_RR_AC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RR_ACD_0, ca_binding_to_cam_RR_CD_rbp_on_site_A, ca_binding_to_cam_RR_AD_rbp_on_site_C, ca_binding_to_cam_RR_AC_rbp_on_site_D, ca_binding_to_cam_RR_ACD_rbp_on_site_B).

$$\frac{d}{dt}\text{cam_RR_ACD_rbp} = v_{96} + v_{97} + v_{98} + v_{99} - v_{121} \quad (1246)$$

8.42 Species cam_RR_ACD_tbp

Name cam_RR_ACD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_ACD_tbp_on_site_B and as a product in tbp_binding_to_cam_RR_ACD_0, ca_binding_to_cam_RR_CD_tbp_on_site_A, ca_binding_to_cam_RR_AD_tbp_on_site_C, ca_binding_to_cam_RR_AC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RR_ACD_0, ca_binding_to_cam_RR_CD_tbp_on_site_A, ca_binding_to_cam_RR_AD_tbp_on_site_C, ca_binding_to_cam_RR_AC_tbp_on_site_D, ca_binding_to_cam_RR_ACD_tbp_on_site_B).

$$\frac{d}{dt}\text{cam_RR_ACD_tbp} = v_{100} + v_{101} + v_{102} + v_{103} - v_{126} \quad (1247)$$

8.43 Species cam_RR_BCD_0

Name cam_RR_BCD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_BCD_0, tbp_binding_to_cam_RR_BCD_0, ca_binding_to_cam_RR_BCD_0_on_site_A and as a product in ca_binding_to_cam_RR_CD_0_on_site_B, ca_binding_to_cam_RR_BD_0_on_site_C, ca_binding_to_cam_RR_BC_0_on_site_D, Transition_from_cam_RT_BCD_0_to_cam_RR_BCD_0, Transition_from_cam_TR_BCD_0_to_cam_RR_BCD_0 and as a modifier in ca_binding_to_cam_RR_CD_0_on_site_B, ca_binding_to_cam_RR_BD_0_on_site_C, ca_binding_to_cam_RR_BC_0_on_site_D, rbp_binding_to_cam_RR_BCD_0, tbp_binding_to_cam_RR_BCD_0, ca_binding_to_cam_RR_BCD_0_on_site_A, Transition_from_cam_RT_BCD_0_to_cam_RR_BCD_0, Transition_from_cam_TR_BCD_0_to_cam_RR_BCD_0).

$$\frac{d}{dt}\text{cam.RR.BCD.0} = v_{104} + v_{105} + v_{106} + v_{527} + v_{543} - v_{107} - v_{111} - v_{115} \quad (1248)$$

8.44 Species cam_RR_BCD_rbp

Name cam_RR_BCD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_BCD_rbp_on_site_A and as a product in rbp_binding_to_cam_RR_BCD_0, ca_binding_to_cam_RR_CD_rbp_on_site_B, ca_binding_to_cam_RR_BD_rbp_on_site_C, ca_binding_to_cam_RR_BC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RR_BCD_0, ca_binding_to_cam_RR_CD_rbp_on_site_B, ca_binding_to_cam_RR_BD_rbp_on_site_C, ca_binding_to_cam_RR_BC_rbp_on_site_D, ca_binding_to_cam_RR_BCD_rbp_on_site_A).

$$\frac{d}{dt}\text{cam.RR.BCD.rbp} = v_{107} + v_{108} + v_{109} + v_{110} - v_{120} \quad (1249)$$

8.45 Species cam_RR_BCD_tbp

Name cam_RR_BCD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RR_BCD_tbp_on_site_A and as a product in tbp_binding_to_cam_RR_BCD_0, ca_binding_to_cam_RR_CD_tbp_on_site_B, ca_binding_to_cam_RR_BD_tbp_on_site_C, ca_binding_to_cam_RR_BC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RR_BCD_0, ca_binding_to_cam_RR_CD_tbp_on_site_B, ca_binding_to_cam_RR_BD_tbp_on_site_C, ca_binding_to_cam_RR_BC_tbp_on_site_D, ca_binding_to_cam_RR_BCD_tbp_on_site_A).

$$\frac{d}{dt}\text{cam.RR.BCD.tbp} = v_{111} + v_{112} + v_{113} + v_{114} - v_{125} \quad (1250)$$

8.46 Species cam_RR_ABCD_0

Name cam_RR_ABCD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RR_ABCD_0, tbp_binding_to_cam_RR_ABCD_0 and as a product in ca_binding_to_cam_RR_BCD_0_on_site_A, ca_binding_to_cam_RR_ACD_0_on_site_B, ca_binding_to_cam_RR_ABD_0_on_site_C, ca_binding_to_cam_RR_ABC_0_on_site_D, Transition_from_cam_RT_ABCD_0_to_cam_RR_ABCD_0, Transition_from_cam_TR_ABCD_0_to_cam_RR_ABCD_0 and as a modifier in ca_binding_to_cam_RR_BCD_0_on_site_A, ca_binding_to_cam_RR_ACD_0_on_site_B, ca_binding_to_cam_RR_ABD_0_on_site_C, ca_binding_to_cam_RR_ABC_0_on_site_D, rbp_binding_to_cam_RR_ABCD_0, tbp_binding_to_cam_RR_ABCD_0, Transition_from_cam_RT_ABCD_0_to_cam_RR_ABCD_0, Transition_from_cam_TR_ABCD_0_to_cam_RR_ABCD_0).

$$\frac{d}{dt}\text{cam.RR.ABCD.0} = v_{115} + v_{116} + v_{117} + v_{118} + v_{528} + v_{544} - v_{119} - v_{124} \quad (1251)$$

8.47 Species cam_RR_ABCD_rbp

Name cam_RR_ABCD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a product in rbp_binding_to_cam_RR_ABCD_0, ca_binding_to_cam_RR_BCD_rbp_on_site_A, ca_binding_to_cam_RR_ACD_rbp_on_site_B, ca_binding_to_cam_RR_ABD_rbp_on_site_C, ca_binding_to_cam_RR_ABC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RR_ABCD_0, ca_binding_to_cam_RR_BCD_rbp_on_site_A, ca_binding_to_cam_RR_ACD_rbp_on_site_B, ca_binding_to_cam_RR_ABD_rbp_on_site_C, ca_binding_to_cam_RR_ABC_rbp_on_site_D).

$$\frac{d}{dt}\text{cam.RR.ABCD.rbp} = v_{119} + v_{120} + v_{121} + v_{122} + v_{123} \quad (1252)$$

8.48 Species cam_RR_ABCD_tbp

Name cam_RR_ABCD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a product in tbp_binding_to_cam_RR_ABCD_0, ca_binding_to_cam_RR_BCD_tbp_on_site_A, ca_binding_to_cam_RR_ACD_tbp_on_site_B, ca_binding_to_cam_RR_ABD_tbp_on_site_C, ca_binding_to_cam_RR_ABC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RR_ABCD_0, ca_binding_to_cam_RR_BCD_tbp_on_site_A, ca_binding_to_cam_RR_ACD_tbp_on_site_B, ca_binding_to_cam_RR_ABD_tbp_on_site_C, ca_binding_to_cam_RR_ABC_tbp_on_site_D).

$$\frac{d}{dt}\text{cam.RR.ABCD.tbp} = v_{124} + v_{125} + v_{126} + v_{127} + v_{128} \quad (1253)$$

8.49 Species cam_RT_0_0

Name cam_RT_0_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_0_0, tbp_binding_to_cam_RT_0_0, ca_binding_to_cam_RT_0_0_on_site_A, ca_binding_to_cam_RT_0_0_on_site_B, ca_binding_to_cam_RT_0_0_on_site_C, ca_binding_to_cam_RT_0_0_on_site_D, Transition_from_cam_RT_0_0_to_cam_RR_0_0 and as a product in Transition_from_cam_TT_0_0_to_cam_RT_0_0 and as a modifier in rbp_binding_to_cam_RT_0_0, tbp_binding_to_cam_RT_0_0, ca_binding_to_cam_RT_0_0_on_site_A, ca_binding_to_cam_RT_0_0_on_site_B, ca_binding_to_cam_RT_0_0_on_site_C, ca_binding_to_cam_RT_0_0_on_site_D, Transition_from_cam_RT_0_0_to_cam_RR_0_0, Transition_from_cam_TT_0_0_to_cam_RT_0_0).

$$\frac{d}{dt} \text{cam_RT_0_0} = v_{545} - v_{129} - v_{130} - v_{131} - v_{136} - v_{141} - v_{146} - v_{513} \quad (1254)$$

8.50 Species cam_RT_0_rbp

Name cam_RT_0_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_0_rbp_on_site_A, ca_binding_to_cam_RT_0_rbp_on_site_B, ca_binding_to_cam_RT_0_rbp_on_site_C, ca_binding_to_cam_RT_0_rbp_on_site_D and as a product in rbp_binding_to_cam_RT_0_0 and as a modifier in rbp_binding_to_cam_RT_0_0, ca_binding_to_cam_RT_0_rbp_on_site_A, ca_binding_to_cam_RT_0_rbp_on_site_B, ca_binding_to_cam_RT_0_rbp_on_site_C, ca_binding_to_cam_RT_0_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_RT_0_rbp} = v_{129} - v_{133} - v_{138} - v_{143} - v_{148} \quad (1255)$$

8.51 Species cam_RT_0_tbp

Name cam_RT_0_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_0_tbp_on_site_A, ca_binding_to_cam_RT_0_tbp_on_site_B, ca_binding_to_cam_RT_0_tbp_on_site_C, ca_binding_to_cam_RT_0_tbp_on_site_D and as a product in tbp_binding_to_cam_RT_0_0 and as a modifier in tbp_binding_to_cam_RT_0_0, ca_binding_to_cam_RT_0_tbp_on_site_A, ca_binding_to_cam_RT_0_tbp_on_site_B, ca_binding_to_cam_RT_0_tbp_on_site_C, ca_binding_to_cam_RT_0_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_RT_0_tbp} = v_{130} - v_{135} - v_{140} - v_{145} - v_{150} \quad (1256)$$

8.52 Species cam_RT_A_0

Name cam_RT_A_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_A_0, tbp_binding_to_cam_RT_A_0, ca_binding_to_cam_RT_A_0_on_site_B, ca_binding_to_cam_RT_A_0_on_site_C, ca_binding_to_cam_RT_A_0_on_site_D, Transition_from_cam_RT_A_0_to_cam_RR_A_0 and as a product in ca_binding_to_cam_RT_0_0_on_site_A, Transition_from_cam_TT_A_0_to_cam_RT_A_0 and as a modifier in ca_binding_to_cam_RT_0_0_on_site_A, rbp_binding_to_cam_RT_A_0, tbp_binding_to_cam_RT_A_0, ca_binding_to_cam_RT_A_0_on_site_B, ca_binding_to_cam_RT_A_0_on_site_C, ca_binding_to_cam_RT_A_0_on_site_D, Transition_from_cam_RT_A_0_to_cam_RR_A_0, Transition_from_cam_TT_A_0_to_cam_RT_A_0).

$$\frac{d}{dt} \text{cam_RT_A_0} = v_{131} + v_{547} - v_{132} - v_{134} - v_{152} - v_{160} - v_{168} - v_{514} \quad (1257)$$

8.53 Species cam_RT_A_rbp

Name cam_RT_A_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_A_rbp_on_site_B, ca_binding_to_cam_RT_A_rbp_on_site_C, ca_binding_to_cam_RT_A_rbp_on_site_D and as a product in rbp_binding_to_cam_RT_A_0, ca_binding_to_cam_RT_0_rbp_on_site_A and as a modifier in rbp_binding_to_cam_RT_A_0, ca_binding_to_cam_RT_0_rbp_on_site_A, ca_binding_to_cam_RT_A_rbp_on_site_B, ca_binding_to_cam_RT_A_rbp_on_site_C, ca_binding_to_cam_RT_A_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_RT_A_rbp} = v_{132} + v_{133} - v_{155} - v_{163} - v_{171} \quad (1258)$$

8.54 Species cam_RT_A_tbp

Name cam_RT_A_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_A_tbp_on_site_B, ca_binding_to_cam_RT_A_tbp_on_site_C, ca_binding_to_cam_RT_A_tbp_on_site_D and as a product in tbp_binding_to_cam_RT_A_0, ca_binding_to_cam_RT_0_tbp_on_site_A and as a modifier in tbp_binding_to_cam_RT_A_0, ca_binding_to_cam_RT_0_tbp_on_site_A, ca_binding_to_cam_RT_A_tbp_on_site_B, ca_binding_to_cam_RT_A_tbp_on_site_C, ca_binding_to_cam_RT_A_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_RT_A_tbp} = v_{134} + v_{135} - v_{158} - v_{166} - v_{174} \quad (1259)$$

8.55 Species cam_RT_B_0

Name cam_RT_B_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_B_0, tbp_binding_to_cam_RT_B_0, ca_binding_to_cam_RT_B_0_on_site_A, ca_binding_to_cam_RT_B_0_on_site_C, ca_binding_to_cam_RT_B_0_on_site_D, Transition_from_cam_RT_B_0_to_cam_RR_B_0 and as a product in ca_binding_to_cam_RT_0_0_on_site_B, Transition_from_cam_TT_B_0_to_cam_RT_B_0 and as a modifier in ca_binding_to_cam_RT_0_0_on_site_B, rbp_binding_to_cam_RT_B_0, tbp_binding_to_cam_RT_B_0, ca_binding_to_cam_RT_B_0_on_site_A, ca_binding_to_cam_RT_B_0_on_site_C, ca_binding_to_cam_RT_B_0_on_site_D, Transition_from_cam_RT_B_0_to_cam_RR_B_0, Transition_from_cam_TT_B_0_to_cam_RT_B_0).

$$\frac{d}{dt} \text{cam_RT_B_0} = v_{136} + v_{549} - v_{137} - v_{139} - v_{151} - v_{176} - v_{184} - v_{515} \quad (1260)$$

8.56 Species cam_RT_B_rbp

Name cam_RT_B_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_B_rbp_on_site_A, ca_binding_to_cam_RT_B_rbp_on_site_C, ca_binding_to_cam_RT_B_rbp_on_site_D and as a product in rbp_binding_to_cam_RT_B_0, ca_binding_to_cam_RT_0_rbp_on_site_B and as a modifier in rbp_binding_to_cam_RT_B_0, ca_binding_to_cam_RT_0_rbp_on_site_B, ca_binding_to_cam_RT_B_rbp_on_site_A, ca_binding_to_cam_RT_B_rbp_on_site_C, ca_binding_to_cam_RT_B_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_RT_B_rbp} = v_{137} + v_{138} - v_{154} - v_{179} - v_{187} \quad (1261)$$

8.57 Species cam_RT_B_tbp

Name cam_RT_B_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_B_tbp_on_site_A, ca_binding_to_cam_RT_B_tbp_on_site_C, ca_binding_to_cam_RT_B_tbp_on_site_D and as a product in tbp_binding_to_cam_RT_B_0, ca_binding_to_cam_RT_0_tbp_on_site_B and as a modifier in tbp_binding_to_cam_RT_B_0, ca_binding_to_cam_RT_0_tbp_on_site_B, ca_binding_to_cam_RT_B_tbp_on_site_A, ca_binding_to_cam_RT_B_tbp_on_site_C, ca_binding_to_cam_RT_B_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_RT_B_tbp} = v_{139} + v_{140} - v_{157} - v_{182} - v_{190} \quad (1262)$$

8.58 Species cam_RT_C_0

Name cam_RT_C_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_C_0, tbp_binding_to_cam_RT_C_0, ca_binding_to_cam_RT_C_0_on_site_A, ca_binding_to_cam_RT_C_0_on_site_B, ca_binding_to_cam_RT_C_0_on_site_D, Transition_from_cam_RT_C_0_to_cam_RR_C_0 and as a product in ca_binding_to_cam_RT_0_0_on_site_C, Transition_from_cam_TT_C_0_to_cam_RT_C_0 and as a modifier in ca_binding_to_cam_RT_0_0_on_site_C, rbp_binding_to_cam_RT_C_0, tbp_binding_to_cam_RT_C_0, ca_binding_to_cam_RT_C_0_on_site_A, ca_binding_to_cam_RT_C_0_on_site_B, ca_binding_to_cam_RT_C_0_on_site_D, Transition_from_cam_RT_C_0_to_cam_RR_C_0, Transition_from_cam_TT_C_0_to_cam_RT_C_0).

$$\frac{d}{dt} \text{cam_RT_C_0} = v_{141} + v_{551} - v_{142} - v_{144} - v_{159} - v_{175} - v_{192} - v_{516} \quad (1263)$$

8.59 Species cam_RT_C_rbp

Name cam_RT_C_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_C_rbp_on_site_A, ca_binding_to_cam_RT_C_rbp_on_site_B, ca_binding_to_cam_RT_C_rbp_on_site_D and as a product in rbp_binding_to_cam_RT_C_0, ca_binding_to_cam_RT_0_rbp_on_site_C and as a modifier in rbp_binding_to_cam_RT_C_0, ca_binding_to_cam_RT_0_rbp_on_site_C, ca_binding_to_cam_RT_C_rbp_on_site_A, ca_binding_to_cam_RT_C_rbp_on_site_B, ca_binding_to_cam_RT_C_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_RT_C_rbp} = v_{142} + v_{143} - v_{162} - v_{178} - v_{195} \quad (1264)$$

8.60 Species cam_RT_C_tbp

Name cam_RT_C_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_C_tbp_on_site_A, ca_binding_to_cam_RT_C_tbp_on_site_B, ca_binding_to_cam_RT_C_tbp_on_site_D and as a product in tbp_binding_to_cam_RT_C_0, ca_binding_to_cam_RT_0_tbp_on_site_C and as a modifier in tbp_binding_to_cam_RT_C_0, ca_binding_to_cam_RT_0_tbp_on_site_C, ca_binding_to_cam_RT_C_tbp_on_site_A, ca_binding_to_cam_RT_C_tbp_on_site_B, ca_binding_to_cam_RT_C_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_RT_C_tbp} = v_{144} + v_{145} - v_{165} - v_{181} - v_{198} \quad (1265)$$

8.61 Species cam_RT_D_0

Name cam_RT_D_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_D_0, tbp_binding_to_cam_RT_D_0, ca_binding_to_cam_RT_D_0_on_site_A, ca_binding_to_cam_RT_D_0_on_site_B, ca_binding_to_cam_RT_D_0_on_site_C, Transition_from_cam_RT_D_0_to_cam_RR_D_0 and as a product in ca_binding_to_cam_RT_0_0_on_site_D, Transition_from_cam_TT_D_0_to_cam_RT_D_0 and as a modifier in ca_binding_to_cam_RT_0_0_on_site_D, rbp_binding_to_cam_RT_D_0, tbp_binding_to_cam_RT_D_0, ca_binding_to_cam_RT_D_0_on_site_A, ca_binding_to_cam_RT_D_0_on_site_B, ca_binding_to_cam_RT_D_0_on_site_C, Transition_from_cam_RT_D_0_to_cam_RR_D_0, Transition_from_cam_TT_D_0_to_cam_RT_D_0).

$$\frac{d}{dt} \text{cam_RT_D_0} = v_{146} + v_{553} - v_{147} - v_{149} - v_{167} - v_{183} - v_{191} - v_{517} \quad (1266)$$

8.62 Species cam_RT_D_rbp

Name cam_RT_D_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_D_rbp_on_site_A, ca_binding_to_cam_RT_D_rbp_on_site_B, ca_binding_to_cam_RT_D_rbp_on_site_C and as a product in rbp_binding_to_cam_RT_D_0, ca_binding_to_cam_RT_0_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RT_D_0, ca_binding_to_cam_RT_0_rbp_on_site_D, ca_binding_to_cam_RT_D_rbp_on_site_A, ca_binding_to_cam_RT_D_rbp_on_site_B, ca_binding_to_cam_RT_D_rbp_on_site_C).

$$\frac{d}{dt} \text{cam_RT_D_rbp} = v_{147} + v_{148} - v_{170} - v_{186} - v_{194} \quad (1267)$$

8.63 Species cam_RT_D_tbp

Name cam_RT_D_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_D_tbp_on_site_A, ca_binding_to_cam_RT_D_tbp_on_site_B, ca_binding_to_cam_RT_D_tbp_on_site_C and as a product in tbp_binding_to_cam_RT_D_0, ca_binding_to_cam_RT_0_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RT_D_0, ca_binding_to_cam_RT_0_tbp_on_site_D, ca_binding_to_cam_RT_D_tbp_on_site_A, ca_binding_to_cam_RT_D_tbp_on_site_B, ca_binding_to_cam_RT_D_tbp_on_site_C).

$$\frac{d}{dt} \text{cam_RT_D_tbp} = v_{149} + v_{150} - v_{173} - v_{189} - v_{197} \quad (1268)$$

8.64 Species cam_RT_AB_0

Name cam_RT_AB_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_AB_0, tbp_binding_to_cam_RT_AB_0, ca_binding_to_cam_RT_AB_0_on_site_C, ca_binding_to_cam_RT_AB_0_on_site_D, Transition_from_cam_RT_AB_0_to_cam_RR_AB_0 and as a product in ca_binding_to_cam_RT_B_0_on_site_A, ca_binding_to_cam_RT_A_0_on_site_B, Transition_from_cam_TT_AB_0_to_cam_RT_AB_0 and as a modifier in ca_binding_to_cam_RT_B_0_on_site_A, ca_binding_to_cam_RT_A_0_on_site_B, rbp_binding_to_cam_RT_AB_0, tbp_binding_to_cam_RT_AB_0, ca_binding_to_cam_RT_AB_0_on_site_C, ca_binding_to_cam_RT_AB_0_on_site_D, Transition_from_cam_RT_AB_0_to_cam_RR_AB_0, Transition_from_cam_TT_AB_0_to_cam_RT_AB_0).

$$\frac{d}{dt}\text{cam_RT_AB_0} = v_{151} + v_{152} + v_{555} - v_{153} - v_{156} - v_{201} - v_{212} - v_{518} \quad (1269)$$

8.65 Species cam_RT_AB_rbp

Name cam_RT_AB_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_AB_rbp_on_site_C, ca_binding_to_cam_RT_AB_rbp_on_site_D and as a product in rbp_binding_to_cam_RT_AB_0, ca_binding_to_cam_RT_B_rbp_on_site_A, ca_binding_to_cam_RT_A_rbp_on-site_B and as a modifier in rbp_binding_to_cam_RT_AB_0, ca_binding_to_cam_RT_B_rbp_on-site_A, ca_binding_to_cam_RT_A_rbp_on-site_B, ca_binding_to_cam_RT_AB_rbp_on-site_C, ca_binding_to_cam_RT_AB_rbp_on-site_D).

$$\frac{d}{dt}\text{cam_RT_AB_rbp} = v_{153} + v_{154} + v_{155} - v_{205} - v_{216} \quad (1270)$$

8.66 Species cam_RT_AB_tbp

Name cam_RT_AB_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_AB_tbp_on-site_C, ca_binding_to_cam_RT_AB_tbp_on-site_D and as a product in tbp_binding_to_cam_RT_AB_0, ca_binding_to_cam_RT_B_tbp_on-site_A, ca_binding_to_cam_RT_A_tbp_on-site_B and as a modifier in tbp_binding_to_cam_RT_AB_0, ca_binding_to_cam_RT_B_tbp_on-site_A, ca_binding_to_cam_RT_A_tbp_on-site_B, ca_binding_to_cam_RT_AB_tbp_on-site_C, ca_binding_to_cam_RT_AB_tbp_on-site_D).

$$\frac{d}{dt}\text{cam_RT_AB_tbp} = v_{156} + v_{157} + v_{158} - v_{209} - v_{220} \quad (1271)$$

8.67 Species cam_RT_AC_0

Name cam_RT_AC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_AC_0, tbp_binding_to_cam_RT_AC_0, ca_binding_to_cam_RT_AC_0_on_site_B, ca_binding_to_cam_RT_AC_0_on_site_D, Transition_from_cam_RT_AC_0_to_cam_RR_AC_0 and as a product in ca_binding_to_cam_RT_C_0_on_site_A, ca_binding_to_cam_RT_A_0_on_site_C, Transition_from_cam_TT_AC_0_to_cam_RT_AC_0 and as a modifier in ca_binding_to_cam_RT_C_0_on_site_A, ca_binding_to_cam_RT_A_0_on_site_C, rbp_binding_to_cam_RT_AC_0, tbp_binding_to_cam_RT_AC_0, ca_binding_to_cam_RT_AC_0_on_site_B, ca_binding_to_cam_RT_AC_0_on_site_D, Transition_from_cam_RT_AC_0_to_cam_RR_AC_0, Transition_from_cam_TT_AC_0_to_cam_RT_AC_0).

$$\frac{d}{dt}\text{cam_RT_AC_0} = v_{159} + v_{160} + v_{557} - v_{161} - v_{164} - v_{200} - v_{223} - v_{519} \quad (1272)$$

8.68 Species cam_RT_AC_rbp

Name cam_RT_AC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_AC_rbp_on_site_B, ca_binding_to_cam_RT_AC_rbp_on_site_D and as a product in rbp_binding_to_cam_RT_AC_0, ca_binding_to_cam_RT_C_rbp_on_site_A, ca_binding_to_cam_RT_A_rbp_on-site_C and as a modifier in rbp_binding_to_cam_RT_AC_0, ca_binding_to_cam_RT_C_rbp_on-site_A, ca_binding_to_cam_RT_A_rbp_on-site_C, ca_binding_to_cam_RT_AC_rbp_on-site_B, ca_binding_to_cam_RT_AC_rbp_on-site_D).

$$\frac{d}{dt}\text{cam_RT_AC_rbp} = v_{161} + v_{162} + v_{163} - v_{204} - v_{227} \quad (1273)$$

8.69 Species cam_RT_AC_tbp

Name cam_RT_AC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_AC_tbp_on-site_B, ca_binding_to_cam_RT_AC_tbp_on-site_D and as a product in tbp_binding_to_cam_RT_AC_0, ca_binding_to_cam_RT_C_tbp_on-site_A, ca_binding_to_cam_RT_A_tbp_on-site_C and as a modifier in tbp_binding_to_cam_RT_AC_0, ca_binding_to_cam_RT_C_tbp_on-site_A, ca_binding_to_cam_RT_A_tbp_on-site_C, ca_binding_to_cam_RT_AC_tbp_on-site_B, ca_binding_to_cam_RT_AC_tbp_on-site_D).

$$\frac{d}{dt}\text{cam_RT_AC_tbp} = v_{164} + v_{165} + v_{166} - v_{208} - v_{231} \quad (1274)$$

8.70 Species cam_RT_AD_0

Name cam_RT_AD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_AD_0, tbp_binding_to_cam_RT_AD_0, ca_binding_to_cam_RT_AD_0_on_site_B, ca_binding_to_cam_RT_AD_0_on_site_C, Transition_from_cam_RT_AD_0_to_cam_RR_AD_0 and as a product in ca_binding_to_cam_RT_D_0_on_site_A, ca_binding_to_cam_RT_A_0_on_site_D, Transition_from_cam_TT_AD_0_to_cam_RT_AD_0 and as a modifier in ca_binding_to_cam_RT_D_0_on_site_A, ca_binding_to_cam_RT_A_0_on_site_D, rbp_binding_to_cam_RT_AD_0, tbp_binding_to_cam_RT_AD_0, ca_binding_to_cam_RT_AD_0_on_site_B, ca_binding_to_cam_RT_AD_0_on_site_C, Transition_from_cam_RT_AD_0_to_cam_RR_AD_0, Transition_from_cam_TT_AD_0_to_cam_RT_AD_0).

$$\frac{d}{dt}\text{cam_RT_AD_0} = v_{167} + v_{168} + v_{559} - v_{169} - v_{172} - v_{211} - v_{222} - v_{520} \quad (1275)$$

8.71 Species cam_RT_AD_rbp

Name cam_RT_AD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_AD_rbp_on_site_B, ca_binding_to_cam_RT_AD_rbp_on_site_C and as a product in rbp_binding_to_cam_RT_AD_0, ca_binding_to_cam_RT_D_rbp_on_site_A, ca_binding_to_cam_RT_A_rbp_on-site_D and as a modifier in rbp_binding_to_cam_RT_AD_0, ca_binding_to_cam_RT_D_rbp_on-site_A, ca_binding_to_cam_RT_A_rbp_on-site_D, ca_binding_to_cam_RT_AD_rbp_on-site_B, ca_binding_to_cam_RT_AD_rbp_on-site_C).

$$\frac{d}{dt}\text{cam_RT_AD_rbp} = v_{169} + v_{170} + v_{171} - v_{215} - v_{226} \quad (1276)$$

8.72 Species cam_RT_AD_tbp

Name cam_RT_AD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_AD_tbp_on-site_B, ca_binding_to_cam_RT_AD_tbp_on-site_C and as a product in tbp_binding_to_cam_RT_AD_0, ca_binding_to_cam_RT_D_tbp_on-site_A, ca_binding_to_cam_RT_A_tbp_on-site_D and as a modifier in tbp_binding_to_cam_RT_AD_0, ca_binding_to_cam_RT_D_tbp_on-site_A, ca_binding_to_cam_RT_A_tbp_on-site_D, ca_binding_to_cam_RT_AD_tbp_on-site_B, ca_binding_to_cam_RT_AD_tbp_on-site_C).

$$\frac{d}{dt}\text{cam_RT_AD_tbp} = v_{172} + v_{173} + v_{174} - v_{219} - v_{230} \quad (1277)$$

8.73 Species cam_RT_BC_0

Name cam_RT_BC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_BC_0, tbp_binding_to_cam_RT_BC_0, ca_binding_to_cam_RT_BC_0_on_site_A, ca_binding_to_cam_RT_BC_0_on_site_D, Transition_from_cam_RT_BC_0_to_cam_RR_BC_0 and as a product in ca_binding_to_cam_RT_C_0_on_site_B, ca_binding_to_cam_RT_B_0_on_site_C, Transition_from_cam_TT_BC_0_to_cam_RT_BC_0 and as a modifier in ca_binding_to_cam_RT_C_0_on_site_B, ca_binding_to_cam_RT_B_0_on_site_C, rbp_binding_to_cam_RT_BC_0, tbp_binding_to_cam_RT_BC_0, ca_binding_to_cam_RT_BC_0_on_site_A, ca_binding_to_cam_RT_BC_0_on_site_D, Transition_from_cam_RT_BC_0_to_cam_RR_BC_0, Transition_from_cam_TT_BC_0_to_cam_RT_BC_0).

$$\frac{d}{dt}\text{cam_RT_BC_0} = v_{175} + v_{176} + v_{561} - v_{177} - v_{180} - v_{199} - v_{234} - v_{521} \quad (1278)$$

8.74 Species cam_RT_BC_rbp

Name cam_RT_BC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_BC_rbp_on_site_A, ca_binding_to_cam_RT_BC_rbp_on_site_D and as a product in rbp_binding_to_cam_RT_BC_0, ca_binding_to_cam_RT_C_rbp_on_site_B, ca_binding_to_cam_RT_B_rbp_on-site_C and as a modifier in rbp_binding_to_cam_RT_BC_0, ca_binding_to_cam_RT_C_rbp_on-site_B, ca_binding_to_cam_RT_B_rbp_on-site_C, ca_binding_to_cam_RT_BC_rbp_on-site_A, ca_binding_to_cam_RT_BC_rbp_on-site_D).

$$\frac{d}{dt}\text{cam_RT_BC_rbp} = v_{177} + v_{178} + v_{179} - v_{203} - v_{238} \quad (1279)$$

8.75 Species cam_RT_BC_tbp

Name cam_RT_BC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_BC_tbp_on-site_A, ca_binding_to_cam_RT_BC_tbp_on-site_D and as a product in tbp_binding_to_cam_RT_BC_0, ca_binding_to_cam_RT_C_tbp_on-site_B, ca_binding_to_cam_RT_B_tbp_on-site_C and as a modifier in tbp_binding_to_cam_RT_BC_0, ca_binding_to_cam_RT_C_tbp_on-site_B, ca_binding_to_cam_RT_B_tbp_on-site_C, ca_binding_to_cam_RT_BC_tbp_on-site_A, ca_binding_to_cam_RT_BC_tbp_on-site_D).

$$\frac{d}{dt}\text{cam_RT_BC_tbp} = v_{180} + v_{181} + v_{182} - v_{207} - v_{242} \quad (1280)$$

8.76 Species cam_RT_BD_0

Name cam_RT_BD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_BD_0, tbp_binding_to_cam_RT_BD_0, ca_binding_to_cam_RT_BD_0_on_site_A, ca_binding_to_cam_RT_BD_0_on_site_C, Transition_from_cam_RT_BD_0_to_cam_RR_BD_0 and as a product in ca_binding_to_cam_RT_D_0_on_site_B, ca_binding_to_cam_RT_B_0_on_site_D, Transition_from_cam_TT_BD_0_to_cam_RT_BD_0 and as a modifier in ca_binding_to_cam_RT_D_0_on_site_B, ca_binding_to_cam_RT_B_0_on_site_D, rbp_binding_to_cam_RT_BD_0, tbp_binding_to_cam_RT_BD_0, ca_binding_to_cam_RT_BD_0_on_site_A, ca_binding_to_cam_RT_BD_0_on_site_C, Transition_from_cam_RT_BD_0_to_cam_RR_BD_0, Transition_from_cam_TT_BD_0_to_cam_RT_BD_0).

$$\frac{d}{dt}\text{cam_RT_BD_0} = v_{183} + v_{184} + v_{563} - v_{185} - v_{188} - v_{210} - v_{233} - v_{522} \quad (1281)$$

8.77 Species cam_RT_BD_rbp

Name cam_RT_BD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_BD_rbp_on_site_A, ca_binding_to_cam_RT_BD_rbp_on_site_C and as a product in rbp_binding_to_cam_RT_BD_0, ca_binding_to_cam_RT_D_rbp_on_site_B, ca_binding_to_cam_RT_B_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RT_BD_0, ca_binding_to_cam_RT_D_rbp_on_site_B, ca_binding_to_cam_RT_B_rbp_on_site_D, ca_binding_to_cam_RT_BD_rbp_on-site_A, ca_binding_to_cam_RT_BD_rbp_on_site_C).

$$\frac{d}{dt}\text{cam_RT_BD_rbp} = v_{185} + v_{186} + v_{187} - v_{214} - v_{237} \quad (1282)$$

8.78 Species cam_RT_BD_tbp

Name cam_RT_BD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_BD_tbp_on-site_A, ca_binding_to_cam_RT_BD_tbp_on-site_C and as a product in tbp_binding_to_cam_RT_BD_0, ca_binding_to_cam_RT_D_tbp_on-site_B, ca_binding_to_cam_RT_B_tbp_on-site_D and as a modifier in tbp_binding_to_cam_RT_BD_0, ca_binding_to_cam_RT_D_tbp_on-site_B, ca_binding_to_cam_RT_B_tbp_on-site_D, ca_binding_to_cam_RT_BD_tbp_on-site_A, ca_binding_to_cam_RT_BD_tbp_on-site_C).

$$\frac{d}{dt}\text{cam_RT_BD_tbp} = v_{188} + v_{189} + v_{190} - v_{218} - v_{241} \quad (1283)$$

8.79 Species cam_RT_CD_0

Name cam_RT_CD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_CD_0, tbp_binding_to_cam_RT_CD_0, ca_binding_to_cam_RT_CD_0_on_site_A, ca_binding_to_cam_RT_CD_0_on_site_B, Transition_from_cam_RT_CD_0_to_cam_RR_CD_0 and as a product in ca_binding_to_cam_RT_D_0_on_site_C, ca_binding_to_cam_RT_C_0_on_site_D, Transition_from_cam_TT_CD_0_to_cam_RT_CD_0 and as a modifier in ca_binding_to_cam_RT_D_0_on_site_C, ca_binding_to_cam_RT_C_0_on_site_D, rbp_binding_to_cam_RT_CD_0, tbp_binding_to_cam_RT_CD_0, ca_binding_to_cam_RT_CD_0_on_site_A, ca_binding_to_cam_RT_CD_0_on_site_B, Transition_from_cam_RT_CD_0_to_cam_RR_CD_0, Transition_from_cam_TT_CD_0_to_cam_RT_CD_0).

$$\frac{d}{dt}\text{cam_RT_CD_0} = v_{191} + v_{192} + v_{565} - v_{193} - v_{196} - v_{221} - v_{232} - v_{523} \quad (1284)$$

8.80 Species cam_RT_CD_rbp

Name cam_RT_CD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_CD_rbp_on_site_A, ca_binding_to_cam_RT_CD_rbp_on_site_B and as a product in rbp_binding_to_cam_RT_CD_0, ca_binding_to_cam_RT_D_rbp_on_site_C, ca_binding_to_cam_RT_C_rbp_on-site_D and as a modifier in rbp_binding_to_cam_RT_CD_0, ca_binding_to_cam_RT_D_rbp_on-site_C, ca_binding_to_cam_RT_C_rbp_on-site_D, ca_binding_to_cam_RT_CD_rbp_on-site_A, ca_binding_to_cam_RT_CD_rbp_on-site_B).

$$\frac{d}{dt}\text{cam_RT_CD_rbp} = v_{193} + v_{194} + v_{195} - v_{225} - v_{236} \quad (1285)$$

8.81 Species cam_RT_CD_tbp

Name cam_RT_CD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_CD_tbp_on-site_A, ca_binding_to_cam_RT_CD_tbp_on-site_B and as a product in tbp_binding_to_cam_RT_CD_0, ca_binding_to_cam_RT_D_tbp_on-site_C, ca_binding_to_cam_RT_C_tbp_on-site_D and as a modifier in tbp_binding_to_cam_RT_CD_0, ca_binding_to_cam_RT_D_tbp_on-site_C, ca_binding_to_cam_RT_C_tbp_on-site_D, ca_binding_to_cam_RT_CD_tbp_on-site_A, ca_binding_to_cam_RT_CD_tbp_on-site_B).

$$\frac{d}{dt}\text{cam_RT_CD_tbp} = v_{196} + v_{197} + v_{198} - v_{229} - v_{240} \quad (1286)$$

8.82 Species cam_RT_ABC_0

Name cam_RT_ABC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_ABC_0, tbp_binding_to_cam_RT_ABC_0, ca_binding_to_cam_RT_ABC_0_on_site_D, Transition_from_cam_RT_ABC_0_to_cam_RR_ABC_0 and as a product in ca_binding_to_cam_RT_BC_0_on_site_A, ca_binding_to_cam_RT_AC_0_on_site_B, ca_binding_to_cam_RT_AB_0_on_site_C, Transition_from_cam_TT_ABC_0_to_cam_RT_ABC_0 and as a modifier in ca_binding_to_cam_RT_BC_0_on_site_A, ca_binding_to_cam_RT_AC_0_on_site_B, ca_binding_to_cam_RT_AB_0_on_site_C, rbp_binding_to_cam_RT_ABC_0, tbp_binding_to_cam_RT_ABC_0, ca_binding_to_cam_RT_ABC_0_on_site_D, Transition_from_cam_RT_ABC_0_to_cam_RR_ABC_0, Transition_from_cam_TT_ABC_0_to_cam_RT_ABC_0).

$$\frac{d}{dt}\text{cam_RT_ABC_0} = v_{199} + v_{200} + v_{201} + v_{567} - v_{202} - v_{206} - v_{246} - v_{524} \quad (1287)$$

8.83 Species cam_RT_ABC_rbp

Name cam_RT_ABC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_ABC_rbp_on_site_D and as a product in rbp_binding_to_cam_RT_ABC_0, ca_binding_to_cam_RT_BC_rbp_on_site_A, ca_binding_to_cam_RT_AC_rbp_on_site_B, ca_binding_to_cam_RT_AB_rbp_on_site_C and as a modifier in rbp_binding_to_cam_RT_ABC_0, ca_binding_to_cam_RT_BC_rbp_on_site_A, ca_binding_to_cam_RT_AC_rbp_on_site_B, ca_binding_to_cam_RT_AB_rbp_on_site_C, ca_binding_to_cam_RT_ABC_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_RT_ABC_rbp} = v_{202} + v_{203} + v_{204} + v_{205} - v_{251} \quad (1288)$$

8.84 Species cam_RT_ABC_tbp

Name cam_RT_ABC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_ABC_tbp_on_site_D and as a product in tbp_binding_to_cam_RT_ABC_0, ca_binding_to_cam_RT_BC_tbp_on_site_A, ca_binding_to_cam_RT_AC_tbp_on_site_B, ca_binding_to_cam_RT_AB_tbp_on_site_C and as a modifier in tbp_binding_to_cam_RT_ABC_0, ca_binding_to_cam_RT_BC_tbp_on_site_A, ca_binding_to_cam_RT_AC_tbp_on_site_B, ca_binding_to_cam_RT_AB_tbp_on_site_C, ca_binding_to_cam_RT_ABC_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_RT_ABC_tbp} = v_{206} + v_{207} + v_{208} + v_{209} - v_{256} \quad (1289)$$

8.85 Species cam_RT_ABD_0

Name cam_RT_ABD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_ABD_0, tbp_binding_to_cam_RT_ABD_0, ca_binding_to_cam_RT_ABD_0_on_site_C, Transition_from_cam_RT_ABD_0_to_cam_RR_ABD_0 and as a product in ca_binding_to_cam_RT_BD_0_on_site_A, ca_binding_to_cam_RT_AD_0_on_site_B, ca_binding_to_cam_RT_AB_0_on_site_D, Transition_from_cam_TT_ABD_0_to_cam_RT_ABD_0 and as a modifier in ca_binding_to_cam_RT_BD_0_on_site_A, ca_binding_to_cam_RT_AD_0_on_site_B, ca_binding_to_cam_RT_AB_0_on_site_D, rbp_binding_to_cam_RT_ABD_0, tbp_binding_to_cam_RT_ABD_0, ca_binding_to_cam_RT_ABD_0_on_site_C, Transition_from_cam_RT_ABD_0_to_cam_RR_ABD_0, Transition_from_cam_TT_ABD_0_to_cam_RT_ABD_0).

$$\frac{d}{dt}\text{cam_RT_ABD_0} = v_{210} + v_{211} + v_{212} + v_{569} - v_{213} - v_{217} - v_{245} - v_{525} \quad (1290)$$

8.86 Species cam_RT_ABD_rbp

Name cam_RT_ABD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_ABD_rbp_on_site_C and as a product in rbp_binding_to_cam_RT_ABD_0, ca_binding_to_cam_RT_BD_rbp_on_site_A, ca_binding_to_cam_RT_AD_rbp_on_site_B, ca_binding_to_cam_RT_AB_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RT_ABD_0, ca_binding_to_cam_RT_BD_rbp_on_site_A, ca_binding_to_cam_RT_AD_rbp_on_site_B, ca_binding_to_cam_RT_AB_rbp_on_site_D, ca_binding_to_cam_RT_ABD_rbp_on_site_C).

$$\frac{d}{dt}\text{cam_RT_ABD_rbp} = v_{213} + v_{214} + v_{215} + v_{216} - v_{250} \quad (1291)$$

8.87 Species cam_RT_ABD_tbp

Name cam_RT_ABD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_ABD_tbp_on_site_C and as a product in tbp_binding_to_cam_RT_ABD_0, ca_binding_to_cam_RT_BD_tbp_on_site_A, ca_binding_to_cam_RT_AD_tbp_on_site_B, ca_binding_to_cam_RT_AB_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RT_ABD_0, ca_binding_to_cam_RT_BD_tbp_on_site_A, ca_binding_to_cam_RT_AD_tbp_on_site_B, ca_binding_to_cam_RT_AB_tbp_on_site_D, ca_binding_to_cam_RT_ABD_tbp_on_site_C).

$$\frac{d}{dt}\text{cam_RT_ABD_tbp} = v_{217} + v_{218} + v_{219} + v_{220} - v_{255} \quad (1292)$$

8.88 Species cam_RT_ACD_0

Name cam_RT_ACD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_ACD_0, tbp_binding_to_cam_RT_ACD_0, ca_binding_to_cam_RT_ACD_0_on_site_B, Transition_from_cam_RT_ACD_0_to_cam_RR_ACD_0 and as a product in ca_binding_to_cam_RT_CD_0_on_site_A, ca_binding_to_cam_RT_AD_0_on_site_C, ca_binding_to_cam_RT_AC_0_on_site_D, Transition_from_cam_TT_ACD_0_to_cam_RT_ACD_0 and as a modifier in ca_binding_to_cam_RT_CD_0_on_site_A, ca_binding_to_cam_RT_AD_0_on_site_C, ca_binding_to_cam_RT_AC_0_on_site_D, rbp_binding_to_cam_RT_ACD_0, tbp_binding_to_cam_RT_ACD_0, ca_binding_to_cam_RT_ACD_0_on_site_B, Transition_from_cam_RT_ACD_0_to_cam_RR_ACD_0, Transition_from_cam_TT_ACD_0_to_cam_RT_ACD_0).

$$\frac{d}{dt}\text{cam_RT_ACD_0} = v_{221} + v_{222} + v_{223} + v_{571} - v_{224} - v_{228} - v_{244} - v_{526} \quad (1293)$$

8.89 Species cam_RT_ACD_rbp

Name cam_RT_ACD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_ACD_rbp_on_site_B and as a product in rbp_binding_to_cam_RT_ACD_0, ca_binding_to_cam_RT_CD_rbp_on_site_A, ca_binding_to_cam_RT_AD_rbp_on_site_C, ca_binding_to_cam_RT_AC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RT_ACD_0, ca_binding_to_cam_RT_CD_rbp_on_site_A, ca_binding_to_cam_RT_AD_rbp_on_site_C, ca_binding_to_cam_RT_AC_rbp_on_site_D, ca_binding_to_cam_RT_ACD_rbp_on_site_B).

$$\frac{d}{dt}\text{cam_RT_ACD_rbp} = v_{224} + v_{225} + v_{226} + v_{227} - v_{249} \quad (1294)$$

8.90 Species cam_RT_ACD_tbp

Name cam_RT_ACD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_ACD_tbp_on_site_B and as a product in tbp_binding_to_cam_RT_ACD_0, ca_binding_to_cam_RT_CD_tbp_on_site_A, ca_binding_to_cam_RT_AD_tbp_on_site_C, ca_binding_to_cam_RT_AC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RT_ACD_0, ca_binding_to_cam_RT_CD_tbp_on_site_A, ca_binding_to_cam_RT_AD_tbp_on_site_C, ca_binding_to_cam_RT_AC_tbp_on_site_D, ca_binding_to_cam_RT_ACD_tbp_on_site_B).

$$\frac{d}{dt}\text{cam_RT_ACD_tbp} = v_{228} + v_{229} + v_{230} + v_{231} - v_{254} \quad (1295)$$

8.91 Species cam_RT_BCD_0

Name cam_RT_BCD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_BCD_0, tbp_binding_to_cam_RT_BCD_0, ca_binding_to_cam_RT_BCD_0_on_site_A, Transition_from_cam_RT_BCD_0_to_cam_RR_BCD_0 and as a product in ca_binding_to_cam_RT_CD_0_on_site_B, ca_binding_to_cam_RT_BD_0_on_site_C, ca_binding_to_cam_RT_BC_0_on_site_D, Transition_from_cam_TT_BCD_0_to_cam_RT_BCD_0 and as a modifier in ca_binding_to_cam_RT_CD_0_on_site_B, ca_binding_to_cam_RT_BD_0_on_site_C, ca_binding_to_cam_RT_BC_0_on_site_D, rbp_binding_to_cam_RT_BCD_0, tbp_binding_to_cam_RT_BCD_0, ca_binding_to_cam_RT_BCD_0_on_site_A, Transition_from_cam_RT_BCD_0_to_cam_RR_BCD_0, Transition_from_cam_TT_BCD_0_to_cam_RT_BCD_0).

$$\frac{d}{dt}\text{cam_RT_BCD_0} = v_{232} + v_{233} + v_{234} + v_{573} - v_{235} - v_{239} - v_{243} - v_{527} \quad (1296)$$

8.92 Species cam_RT_BCD_rbp

Name cam_RT_BCD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_BCD_rbp_on_site_A and as a product in rbp_binding_to_cam_RT_BCD_0, ca_binding_to_cam_RT_CD_rbp_on_site_B, ca_binding_to_cam_RT_BD_rbp_on_site_C, ca_binding_to_cam_RT_BC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RT_BCD_0, ca_binding_to_cam_RT_CD_rbp_on_site_B, ca_binding_to_cam_RT_BD_rbp_on_site_C, ca_binding_to_cam_RT_BC_rbp_on_site_D, ca_binding_to_cam_RT_BCD_rbp_on_site_A).

$$\frac{d}{dt}\text{cam_RT_BCD_rbp} = v_{235} + v_{236} + v_{237} + v_{238} - v_{248} \quad (1297)$$

8.93 Species cam_RT_BCD_tbp

Name cam_RT_BCD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_RT_BCD_tbp_on_site_A and as a product in tbp_binding_to_cam_RT_BCD_0, ca_binding_to_cam_RT_CD_tbp_on_site_B, ca_binding_to_cam_RT_BD_tbp_on_site_C, ca_binding_to_cam_RT_BC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RT_BCD_0, ca_binding_to_cam_RT_CD_tbp_on_site_B, ca_binding_to_cam_RT_BD_tbp_on_site_C, ca_binding_to_cam_RT_BC_tbp_on_site_D, ca_binding_to_cam_RT_BCD_tbp_on_site_A).

$$\frac{d}{dt}\text{cam_RT_BCD_tbp} = v_{239} + v_{240} + v_{241} + v_{242} - v_{253} \quad (1298)$$

8.94 Species cam_RT_ABCD_0

Name cam_RT_ABCD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_RT_ABCD_0, tbp_binding_to_cam_RT_ABCD_0, Transition_from_cam_RT_ABCD_0_to_cam_RR_ABCD_0 and as a product in ca_binding_to_cam_RT_BCD_0_on_site_A, ca_binding_to_cam_RT_ACD_0_on_site_B, ca_binding_to_cam_RT_ABD_0_on_site_C, ca_binding_to_cam_RT_ABC_0_on_site_D, Transition_from_cam_TT_ABCD_0_to_cam_RT_ABCD_0 and as a modifier in ca_binding_to_cam_RT_BCD_0_on_site_A, ca_binding_to_cam_RT_ACD_0_on_site_B, ca_binding_to_cam_RT_ABD_0_on_site_C, ca_binding_to_cam_RT_ABC_0_on_site_D, rbp_binding_to_cam_RT_ABCD_0, tbp_binding_to_cam_RT_ABCD_0, Transition_from_cam_RT_ABCD_0_to_cam_RR_ABCD_0, Transition_from_cam_TT_ABCD_0_to_cam_RT_ABCD_0).

$$\frac{d}{dt}\text{cam_RT_ABCD_0} = v_{243} + v_{244} + v_{245} + v_{246} + v_{575} - v_{247} - v_{252} - v_{528} \quad (1299)$$

8.95 Species cam_RT_ABCD_rbp

Name cam_RT_ABCD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a product in rbp_binding_to_cam_RT_ABCD_0, ca_binding_to_cam_RT_BCD_rbp_on_site_A, ca_binding_to_cam_RT_ACD_rbp_on_site_B, ca_binding_to_cam_RT_ABD_rbp_on_site_C, ca_binding_to_cam_RT_ABC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_RT_ABCD_0, ca_binding_to_cam_RT_BCD_rbp_on_site_A, ca_binding_to_cam_RT_ACD_rbp_on_site_B, ca_binding_to_cam_RT_ABD_rbp_on_site_C, ca_binding_to_cam_RT_ABC_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_RT_ABCD_rbp} = v_{247} + v_{248} + v_{249} + v_{250} + v_{251} \quad (1300)$$

8.96 Species cam_RT_ABCD_tbp

Name cam_RT_ABCD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a product in tbp_binding_to_cam_RT_ABCD_0, ca_binding_to_cam_RT_BCD_tbp_on_site_A, ca_binding_to_cam_RT_ACD_tbp_on_site_B, ca_binding_to_cam_RT_ABD_tbp_on_site_C, ca_binding_to_cam_RT_ABC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_RT_ABCD_0, ca_binding_to_cam_RT_BCD_tbp_on_site_A, ca_binding_to_cam_RT_ACD_tbp_on_site_B, ca_binding_to_cam_RT_ABD_tbp_on_site_C, ca_binding_to_cam_RT_ABC_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_RT_ABCD_tbp} = v_{252} + v_{253} + v_{254} + v_{255} + v_{256} \quad (1301)$$

8.97 Species cam_TR_0_0

Name cam_TR_0_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_0_0, tbp_binding_to_cam_TR_0_0, ca_binding_to_cam_TR_0_0_on_site_A, ca_binding_to_cam_TR_0_0_on_site_B, ca_binding_to_cam_TR_0_0_on_site_C, ca_binding_to_cam_TR_0_0_on_site_D, Transition_from_cam_TR_0_0_to_cam_RR_0_0 and as a product in Transition_from_cam_TT_0_0_to_cam_TR_0_0 and as a modifier in rbp_binding_to_cam_TR_0_0, tbp_binding_to_cam_TR_0_0, ca_binding_to_cam_TR_0_0_on_site_A, ca_binding_to_cam_TR_0_0_on_site_B, ca_binding_to_cam_TR_0_0_on_site_C, ca_binding_to_cam_TR_0_0_on_site_D, Transition_from_cam_TR_0_0_to_cam_RR_0_0, Transition_from_cam_TT_0_0_to_cam_TR_0_0).

$$\frac{d}{dt} \text{cam_TR_0_0} = v_{546} - v_{257} - v_{258} - v_{259} - v_{264} - v_{269} - v_{274} - v_{529} \quad (1302)$$

8.98 Species cam_TR_0_rbp

Name cam_TR_0_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_0_rbp_on_site_A, ca_binding_to_cam_TR_0_rbp_on_site_B, ca_binding_to_cam_TR_0_rbp_on_site_C, ca_binding_to_cam_TR_0_rbp_on_site_D and as a product in rbp_binding_to_cam_TR_0_0 and as a modifier in rbp_binding_to_cam_TR_0_0, ca_binding_to_cam_TR_0_rbp_on_site_A, ca_binding_to_cam_TR_0_rbp_on_site_B, ca_binding_to_cam_TR_0_rbp_on_site_C, ca_binding_to_cam_TR_0_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TR_0_rbp} = v_{257} - v_{261} - v_{266} - v_{271} - v_{276} \quad (1303)$$

8.99 Species cam_TR_0_tbp

Name cam_TR_0_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_0_tbp_on_site_A, ca_binding_to_cam_TR_0_tbp_on_site_B, ca_binding_to_cam_TR_0_tbp_on_site_C, ca_binding_to_cam_TR_0_tbp_on_site_D and as a product in tbp_binding_to_cam_TR_0_0 and as a modifier in tbp_binding_to_cam_TR_0_0, ca_binding_to_cam_TR_0_tbp_on_site_A, ca_binding_to_cam_TR_0_tbp_on_site_B, ca_binding_to_cam_TR_0_tbp_on_site_C, ca_binding_to_cam_TR_0_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TR_0_tbp} = v_{258} - v_{263} - v_{268} - v_{273} - v_{278} \quad (1304)$$

8.100 Species cam_TR_A_0

Name cam_TR_A_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_A_0, tbp_binding_to_cam_TR_A_0, ca_binding_to_cam_TR_A_0_on_site_B, ca_binding_to_cam_TR_A_0_on_site_C, ca_binding_to_cam_TR_A_0_on_site_D, Transition_from_cam_TR_A_0_to_cam_RR_A_0 and as a product in ca_binding_to_cam_TR_0_0_on_site_A, Transition_from_cam_TT_A_0_to_cam_TR_A_0 and as a modifier in ca_binding_to_cam_TR_0_0_on_site_A, rbp_binding_to_cam_TR_A_0, tbp_binding_to_cam_TR_A_0, ca_binding_to_cam_TR_A_0_on_site_B, ca_binding_to_cam_TR_A_0_on_site_C, ca_binding_to_cam_TR_A_0_on_site_D, Transition_from_cam_TR_A_0_to_cam_RR_A_0, Transition_from_cam_TT_A_0_to_cam_TR_A_0).

$$\frac{d}{dt}\text{cam_TR_A_0} = v_{259} + v_{548} - v_{260} - v_{262} - v_{280} - v_{288} - v_{296} - v_{530} \quad (1305)$$

8.101 Species cam_TR_A_rbp

Name cam_TR_A_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_A_rbp_on_site_B, ca_binding_to_cam_TR_A_rbp_on_site_C, ca_binding_to_cam_TR_A_rbp_on_site_D and as a product in rbp_binding_to_cam_TR_A_0, ca_binding_to_cam_TR_0_rbp_on_site_A and as a modifier in rbp_binding_to_cam_TR_A_0, ca_binding_to_cam_TR_0_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on_site_B, ca_binding_to_cam_TR_A_rbp_on_site_C, ca_binding_to_cam_TR_A_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_TR_A_rbp} = v_{260} + v_{261} - v_{283} - v_{291} - v_{299} \quad (1306)$$

8.102 Species cam_TR_A_tbp

Name cam_TR_A_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_A_tbp_on_site_B, ca_binding_to_cam_TR_A_tbp_on_site_C, ca_binding_to_cam_TR_A_tbp_on_site_D and as a product in tbp_binding_to_cam_TR_A_0, ca_binding_to_cam_TR_0_tbp_on_site_A and as a modifier in tbp_binding_to_cam_TR_A_0, ca_binding_to_cam_TR_0_tbp_on_site_A, ca_binding_to_cam_TR_A_tbp_on_site_B, ca_binding_to_cam_TR_A_tbp_on_site_C, ca_binding_to_cam_TR_A_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_TR_A_tbp} = v_{262} + v_{263} - v_{286} - v_{294} - v_{302} \quad (1307)$$

8.103 Species cam_TR_B_0

Name cam_TR_B_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_B_0, tbp_binding_to_cam_TR_B_0, ca_binding_to_cam_TR_B_0_on_site_A, ca_binding_to_cam_TR_B_0_on_site_C, ca_binding_to_cam_TR_B_0_on_site_D, Transition_from_cam_TR_B_0_to_cam_RR_B_0 and as a product in ca_binding_to_cam_TR_0_0_on_site_B, Transition_from_cam_TT_B_0_to_cam_TR_B_0 and as a modifier in ca_binding_to_cam_TR_0_0_on_site_B, rbp_binding_to_cam_TR_B_0, tbp_binding_to_cam_TR_B_0, ca_binding_to_cam_TR_B_0_on_site_A, ca_binding_to_cam_TR_B_0_on_site_C, ca_binding_to_cam_TR_B_0_on_site_D, Transition_from_cam_TR_B_0_to_cam_RR_B_0, Transition_from_cam_TT_B_0_to_cam_TR_B_0).

$$\frac{d}{dt} \text{cam_TR_B_0} = v_{264} + v_{550} - v_{265} - v_{267} - v_{279} - v_{304} - v_{312} - v_{531} \quad (1308)$$

8.104 Species cam_TR_B_rbp

Name cam_TR_B_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_B_rbp_on_site_A, ca_binding_to_cam_TR_B_rbp_on_site_C, ca_binding_to_cam_TR_B_rbp_on_site_D and as a product in rbp_binding_to_cam_TR_B_0, ca_binding_to_cam_TR_0_rbp_on_site_B and as a modifier in rbp_binding_to_cam_TR_B_0, ca_binding_to_cam_TR_0_rbp_on_site_B, ca_binding_to_cam_TR_B_rbp_on_site_A, ca_binding_to_cam_TR_B_rbp_on_site_C, ca_binding_to_cam_TR_B_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TR_B_rbp} = v_{265} + v_{266} - v_{282} - v_{307} - v_{315} \quad (1309)$$

8.105 Species cam_TR_B_tbp

Name cam_TR_B_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_B_tbp_on_site_A, ca_binding_to_cam_TR_B_tbp_on_site_C, ca_binding_to_cam_TR_B_tbp_on_site_D and as a product in tbp_binding_to_cam_TR_B_0, ca_binding_to_cam_TR_0_tbp_on_site_B and as a modifier in tbp_binding_to_cam_TR_B_0, ca_binding_to_cam_TR_0_tbp_on_site_B, ca_binding_to_cam_TR_B_tbp_on_site_A, ca_binding_to_cam_TR_B_tbp_on_site_C, ca_binding_to_cam_TR_B_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TR_B_tbp} = v_{267} + v_{268} - v_{285} - v_{310} - v_{318} \quad (1310)$$

8.106 Species cam_TR_C_0

Name cam_TR_C_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_C_0, tbp_binding_to_cam_TR_C_0, ca_binding_to_cam_TR_C_0_on_site_A, ca_binding_to_cam_TR_C_0_on_site_B, ca_binding_to_cam_TR_C_0_on_site_D, Transition_from_cam_TR_C_0_to_cam_RR_C_0 and as a product in ca_binding_to_cam_TR_0_0_on_site_C, Transition_from_cam_TT_C_0_to_cam_TR_C_0 and as a modifier in ca_binding_to_cam_TR_0_0_on_site_C, rbp_binding_to_cam_TR_C_0, tbp_binding_to_cam_TR_C_0, ca_binding_to_cam_TR_C_0_on_site_A, ca_binding_to_cam_TR_C_0_on_site_B, ca_binding_to_cam_TR_C_0_on_site_D, Transition_from_cam_TR_C_0_to_cam_RR_C_0, Transition_from_cam_TT_C_0_to_cam_TR_C_0).

$$\frac{d}{dt} \text{cam_TR_C_0} = v_{269} + v_{552} - v_{270} - v_{272} - v_{287} - v_{303} - v_{320} - v_{532} \quad (1311)$$

8.107 Species cam_TR_C_rbp

Name cam_TR_C_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_C_rbp_on_site_A, ca_binding_to_cam_TR_C_rbp_on_site_B, ca_binding_to_cam_TR_C_rbp_on_site_D and as a product in rbp_binding_to_cam_TR_C_0, ca_binding_to_cam_TR_0_rbp_on_site_C and as a modifier in rbp_binding_to_cam_TR_C_0, ca_binding_to_cam_TR_0_rbp_on_site_C, ca_binding_to_cam_TR_C_rbp_on_site_A, ca_binding_to_cam_TR_C_rbp_on_site_B, ca_binding_to_cam_TR_C_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TR_C_rbp} = v_{270} + v_{271} - v_{290} - v_{306} - v_{323} \quad (1312)$$

8.108 Species cam_TR_C_tbp

Name cam_TR_C_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_C_tbp_on_site_A, ca_binding_to_cam_TR_C_tbp_on_site_B, ca_binding_to_cam_TR_C_tbp_on_site_D and as a product in tbp_binding_to_cam_TR_C_0, ca_binding_to_cam_TR_0_tbp_on_site_C and as a modifier in tbp_binding_to_cam_TR_C_0, ca_binding_to_cam_TR_0_tbp_on_site_C, ca_binding_to_cam_TR_C_tbp_on_site_A, ca_binding_to_cam_TR_C_tbp_on_site_B, ca_binding_to_cam_TR_C_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TR_C_tbp} = v_{272} + v_{273} - v_{293} - v_{309} - v_{326} \quad (1313)$$

8.109 Species cam_TR_D_0

Name cam_TR_D_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_D_0, tbp_binding_to_cam_TR_D_0, ca_binding_to_cam_TR_D_0_on_site_A, ca_binding_to_cam_TR_D_0_on_site_B, ca_binding_to_cam_TR_D_0_on_site_C, Transition_from_cam_TR_D_0_to_cam_RR_D_0 and as a product in ca_binding_to_cam_TR_0_0_on_site_D, Transition_from_cam_TT_D_0_to_cam_TR_D_0 and as a modifier in ca_binding_to_cam_TR_0_0_on_site_D, rbp_binding_to_cam_TR_D_0, tbp_binding_to_cam_TR_D_0, ca_binding_to_cam_TR_D_0_on_site_A, ca_binding_to_cam_TR_D_0_on_site_B, ca_binding_to_cam_TR_D_0_on_site_C, Transition_from_cam_TR_D_0_to_cam_RR_D_0, Transition_from_cam_TT_D_0_to_cam_TR_D_0).

$$\frac{d}{dt}\text{cam_TR_D_0} = v_{274} + v_{554} - v_{275} - v_{277} - v_{295} - v_{311} - v_{319} - v_{533} \quad (1314)$$

8.110 Species cam_TR_D_rbp

Name cam_TR_D_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_D_rbp_on_site_A, ca_binding_to_cam_TR_D_rbp_on_site_B, ca_binding_to_cam_TR_D_rbp_on_site_C and as a product in rbp_binding_to_cam_TR_D_0, ca_binding_to_cam_TR_0_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TR_D_0, ca_binding_to_cam_TR_0_rbp_on_site_D, ca_binding_to_cam_TR_D_rbp_on_site_A, ca_binding_to_cam_TR_D_rbp_on_site_B, ca_binding_to_cam_TR_D_rbp_on_site_C).

$$\frac{d}{dt}\text{cam_TR_D_rbp} = v_{275} + v_{276} - v_{298} - v_{314} - v_{322} \quad (1315)$$

8.111 Species cam_TR_D_tbp

Name cam_TR_D_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_D_tbp_on_site_A, ca_binding_to_cam_TR_D_tbp_on_site_B, ca_binding_to_cam_TR_D_tbp_on_site_C and as a product in tbp_binding_to_cam_TR_D_0, ca_binding_to_cam_TR_0_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TR_D_0, ca_binding_to_cam_TR_0_tbp_on_site_D, ca_binding_to_cam_TR_D_tbp_on_site_A, ca_binding_to_cam_TR_D_tbp_on_site_B, ca_binding_to_cam_TR_D_tbp_on_site_C).

$$\frac{d}{dt}\text{cam_TR_D_tbp} = v_{277} + v_{278} - v_{301} - v_{317} - v_{325} \quad (1316)$$

8.112 Species cam_TR_AB_0

Name cam_TR_AB_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_AB_0, tbp_binding_to_cam_TR_AB_0, ca_binding_to_cam_TR_AB_0_on_site_C, ca_binding_to_cam_TR_AB_0_on_site_D, Transition_from_cam_TR_AB_0_to_cam_RR_AB_0 and as a product in ca_binding_to_cam_TR_B_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_B, Transition_from_cam_TT_AB_0_to_cam_TR_AB_0 and as a modifier in ca_binding_to_cam_TR_B_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_B, rbp_binding_to_cam_TR_AB_0, tbp_binding_to_cam_TR_AB_0, ca_binding_to_cam_TR_AB_0_on_site_C, ca_binding_to_cam_TR_AB_0_on_site_D, Transition_from_cam_TR_AB_0_to_cam_RR_AB_0, Transition_from_cam_TT_AB_0_to_cam_TR_AB_0).

$$\frac{d}{dt}\text{cam_TR_AB_0} = v_{279} + v_{280} + v_{556} - v_{281} - v_{284} - v_{329} - v_{340} - v_{534} \quad (1317)$$

8.113 Species cam_TR_AB_rbp

Name cam_TR_AB_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_AB_rbp_on_site_C, ca_binding_to_cam_TR_AB_rbp_on_site_D and as a product in rbp_binding_to_cam_TR_AB_0, ca_binding_to_cam_TR_B_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on-site_B and as a modifier in rbp_binding_to_cam_TR_AB_0, ca_binding_to_cam_TR_B_rbp_on-site_A, ca_binding_to_cam_TR_A_rbp_on-site_B, ca_binding_to_cam_TR_AB_rbp_on-site_C, ca_binding_to_cam_TR_AB_rbp_on-site_D).

$$\frac{d}{dt}\text{cam_TR_AB_rbp} = v_{281} + v_{282} + v_{283} - v_{333} - v_{344} \quad (1318)$$

8.114 Species cam_TR_AB_tbp

Name cam_TR_AB_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_AB_tbp_on-site_C, ca_binding_to_cam_TR_AB_tbp_on-site_D and as a product in tbp_binding_to_cam_TR_AB_0, ca_binding_to_cam_TR_B_tbp_on-site_A, ca_binding_to_cam_TR_A_tbp_on-site_B and as a modifier in tbp_binding_to_cam_TR_AB_0, ca_binding_to_cam_TR_B_tbp_on-site_A, ca_binding_to_cam_TR_A_tbp_on-site_B, ca_binding_to_cam_TR_AB_tbp_on-site_C, ca_binding_to_cam_TR_AB_tbp_on-site_D).

$$\frac{d}{dt}\text{cam_TR_AB_tbp} = v_{284} + v_{285} + v_{286} - v_{337} - v_{348} \quad (1319)$$

8.115 Species cam_TR_AC_0

Name cam_TR_AC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_AC_0, tbp_binding_to_cam_TR_AC_0, ca_binding_to_cam_TR_AC_0_on_site_B, ca_binding_to_cam_TR_AC_0_on_site_D, Transition_from_cam_TR_AC_0_to_cam_RR_AC_0 and as a product in ca_binding_to_cam_TR_C_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_C, Transition_from_cam_TT_AC_0_to_cam_TR_AC_0 and as a modifier in ca_binding_to_cam_TR_C_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_C, rbp_binding_to_cam_TR_AC_0, tbp_binding_to_cam_TR_AC_0, ca_binding_to_cam_TR_AC_0_on_site_B, ca_binding_to_cam_TR_AC_0_on_site_D, Transition_from_cam_TR_AC_0_to_cam_RR_AC_0, Transition_from_cam_TT_AC_0_to_cam_TR_AC_0).

$$\frac{d}{dt}\text{cam_TR_AC_0} = v_{287} + v_{288} + v_{558} - v_{289} - v_{292} - v_{328} - v_{351} - v_{535} \quad (1320)$$

8.116 Species cam_TR_AC_rbp

Name cam_TR_AC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_AC_rbp_on_site_B, ca_binding_to_cam_TR_AC_rbp_on_site_D and as a product in rbp_binding_to_cam_TR_AC_0, ca_binding_to_cam_TR_C_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on_site_C and as a modifier in rbp_binding_to_cam_TR_AC_0, ca_binding_to_cam_TR_C_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on_site_C, ca_binding_to_cam_TR_AC_rbp_on_site_B, ca_binding_to_cam_TR_AC_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_TR_AC_rbp} = v_{289} + v_{290} + v_{291} - v_{332} - v_{355} \quad (1321)$$

8.117 Species cam_TR_AC_tbp

Name cam_TR_AC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_AC_tbp_on_site_B, ca_binding_to_cam_TR_AC_tbp_on_site_D and as a product in tbp_binding_to_cam_TR_AC_0, ca_binding_to_cam_TR_C_tbp_on_site_A, ca_binding_to_cam_TR_A_tbp_on_site_C and as a modifier in tbp_binding_to_cam_TR_AC_0, ca_binding_to_cam_TR_C_tbp_on_site_A, ca_binding_to_cam_TR_A_tbp_on_site_C, ca_binding_to_cam_TR_AC_tbp_on_site_B, ca_binding_to_cam_TR_AC_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_TR_AC_tbp} = v_{292} + v_{293} + v_{294} - v_{336} - v_{359} \quad (1322)$$

8.118 Species cam_TR_AD_0

Name cam_TR_AD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_AD_0, tbp_binding_to_cam_TR_AD_0, ca_binding_to_cam_TR_AD_0_on_site_B, ca_binding_to_cam_TR_AD_0_on_site_C, Transition_from_cam_TR_AD_0_to_cam_RR_AD_0 and as a product in ca_binding_to_cam_TR_D_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_D, Transition_from_cam_TT_AD_0_to_cam_TR_AD_0 and as a modifier in ca_binding_to_cam_TR_D_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_D, rbp_binding_to_cam_TR_AD_0, tbp_binding_to_cam_TR_AD_0, ca_binding_to_cam_TR_AD_0_on_site_B, ca_binding_to_cam_TR_AD_0_on_site_C, Transition_from_cam_TR_AD_0_to_cam_RR_AD_0, Transition_from_cam_TT_AD_0_to_cam_TR_AD_0).

$$\frac{d}{dt} \text{cam_TR_AD_0} = v_{295} + v_{296} + v_{560} - v_{297} - v_{300} - v_{339} - v_{350} - v_{536} \quad (1323)$$

8.119 Species cam_TR_AD_rbp

Name cam_TR_AD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_AD_rbp_on_site_B, ca_binding_to_cam_TR_AD_rbp_on_site_C and as a product in rbp_binding_to_cam_TR_AD_0, ca_binding_to_cam_TR_D_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TR_AD_0, ca_binding_to_cam_TR_D_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on_site_D, ca_binding_to_cam_TR_AD_rbp_on-site_B, ca_binding_to_cam_TR_AD_rbp_on_site_C).

$$\frac{d}{dt} \text{cam_TR_AD_rbp} = v_{297} + v_{298} + v_{299} - v_{343} - v_{354} \quad (1324)$$

8.120 Species cam_TR_AD_tbp

Name cam_TR_AD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_AD_tbp_on-site_B, ca_binding_to_cam_TR_AD_tbp_on-site_C and as a product in tbp_binding_to_cam_TR_AD_0, ca_binding_to_cam_TR_D_tbp_on_site_A, ca_binding_to_cam_TR_A_tbp_on-site_D and as a modifier in tbp_binding_to_cam_TR_AD_0, ca_binding_to_cam_TR_D_tbp_on-site_A, ca_binding_to_cam_TR_A_tbp_on-site_D, ca_binding_to_cam_TR_AD_tbp_on-site_B, ca_binding_to_cam_TR_AD_tbp_on-site_C).

$$\frac{d}{dt} \text{cam_TR_AD_tbp} = v_{300} + v_{301} + v_{302} - v_{347} - v_{358} \quad (1325)$$

8.121 Species cam_TR_BC_0

Name cam_TR_BC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_BC_0, tbp_binding_to_cam_TR_BC_0, ca_binding_to_cam_TR_BC_0_on_site_A, ca_binding_to_cam_TR_BC_0_on_site_D, Transition_from_cam_TR_BC_0_to_cam_RR_BC_0 and as a product in ca_binding_to_cam_TR_C_0_on_site_B, ca_binding_to_cam_TR_B_0_on_site_C, Transition_from_cam_TT_BC_0_to_cam_TR_BC_0 and as a modifier in ca_binding_to_cam_TR_C_0_on_site_B, ca_binding_to_cam_TR_B_0_on_site_C, rbp_binding_to_cam_TR_BC_0, tbp_binding_to_cam_TR_BC_0, ca_binding_to_cam_TR_BC_0_on_site_A, ca_binding_to_cam_TR_BC_0_on_site_D, Transition_from_cam_TR_BC_0_to_cam_RR_BC_0, Transition_from_cam_TT_BC_0_to_cam_TR_BC_0).

$$\frac{d}{dt}\text{cam_TR_BC_0} = v_{303} + v_{304} + v_{562} - v_{305} - v_{308} - v_{327} - v_{362} - v_{537} \quad (1326)$$

8.122 Species cam_TR_BC_rbp

Name cam_TR_BC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_BC_rbp_on_site_A, ca_binding_to_cam_TR_BC_rbp_on_site_D and as a product in rbp_binding_to_cam_TR_BC_0, ca_binding_to_cam_TR_C_rbp_on_site_B, ca_binding_to_cam_TR_B_rbp_on_site_C and as a modifier in rbp_binding_to_cam_TR_BC_0, ca_binding_to_cam_TR_C_rbp_on_site_B, ca_binding_to_cam_TR_B_rbp_on_site_C, ca_binding_to_cam_TR_BC_rbp_on-site_A, ca_binding_to_cam_TR_BC_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_TR_BC_rbp} = v_{305} + v_{306} + v_{307} - v_{331} - v_{366} \quad (1327)$$

8.123 Species cam_TR_BC_tbp

Name cam_TR_BC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_BC_tbp_on-site_A, ca_binding_to_cam_TR_BC_tbp_on-site_D and as a product in tbp_binding_to_cam_TR_BC_0, ca_binding_to_cam_TR_C_tbp_on-site_B, ca_binding_to_cam_TR_B_tbp_on-site_C and as a modifier in tbp_binding_to_cam_TR_BC_0, ca_binding_to_cam_TR_C_tbp_on-site_B, ca_binding_to_cam_TR_B_tbp_on-site_C, ca_binding_to_cam_TR_BC_tbp_on-site_A, ca_binding_to_cam_TR_BC_tbp_on-site_D).

$$\frac{d}{dt}\text{cam_TR_BC_tbp} = v_{308} + v_{309} + v_{310} - v_{335} - v_{370} \quad (1328)$$

8.124 Species cam_TR_BD_0

Name cam_TR_BD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_BD_0, tbp_binding_to_cam_TR_BD_0, ca_binding_to_cam_TR_BD_0_on_site_A, ca_binding_to_cam_TR_BD_0_on_site_C, Transition_from_cam_TR_BD_0_to_cam_RR_BD_0 and as a product in ca_binding_to_cam_TR_D_0_on_site_B, ca_binding_to_cam_TR_B_0_on_site_D, Transition_from_cam_TT_BD_0_to_cam_TR_BD_0 and as a modifier in ca_binding_to_cam_TR_D_0_on_site_B, ca_binding_to_cam_TR_B_0_on_site_D, rbp_binding_to_cam_TR_BD_0, tbp_binding_to_cam_TR_BD_0, ca_binding_to_cam_TR_BD_0_on_site_A, ca_binding_to_cam_TR_BD_0_on_site_C, Transition_from_cam_TR_BD_0_to_cam_RR_BD_0, Transition_from_cam_TT_BD_0_to_cam_TR_BD_0).

$$\frac{d}{dt}\text{cam_TR_BD_0} = v_{311} + v_{312} + v_{564} - v_{313} - v_{316} - v_{338} - v_{361} - v_{538} \quad (1329)$$

8.125 Species cam_TR_BD_rbp

Name cam_TR_BD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_BD_rbp_on_site_A, ca_binding_to_cam_TR_BD_rbp_on_site_C and as a product in rbp_binding_to_cam_TR_BD_0, ca_binding_to_cam_TR_D_rbp_on_site_B, ca_binding_to_cam_TR_B_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TR_BD_0, ca_binding_to_cam_TR_D_rbp_on_site_B, ca_binding_to_cam_TR_B_rbp_on_site_D, ca_binding_to_cam_TR_BD_rbp_on-site_A, ca_binding_to_cam_TR_BD_rbp_on_site_C).

$$\frac{d}{dt}\text{cam_TR_BD_rbp} = v_{313} + v_{314} + v_{315} - v_{342} - v_{365} \quad (1330)$$

8.126 Species cam_TR_BD_tbp

Name cam_TR_BD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_BD_tbp_on-site_A, ca_binding_to_cam_TR_BD_tbp_on_site_C and as a product in tbp_binding_to_cam_TR_BD_0, ca_binding_to_cam_TR_D_tbp_on_site_B, ca_binding_to_cam_TR_B_tbp_on-site_D and as a modifier in tbp_binding_to_cam_TR_BD_0, ca_binding_to_cam_TR_D_tbp_on-site_B, ca_binding_to_cam_TR_B_tbp_on-site_D, ca_binding_to_cam_TR_BD_tbp_on-site_A, ca_binding_to_cam_TR_BD_tbp_on-site_C).

$$\frac{d}{dt}\text{cam_TR_BD_tbp} = v_{316} + v_{317} + v_{318} - v_{346} - v_{369} \quad (1331)$$

8.127 Species cam_TR_CD_0

Name cam_TR_CD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_CD_0, tbp_binding_to_cam_TR_CD_0, ca_binding_to_cam_TR_CD_0_on_site_A, ca_binding_to_cam_TR_CD_0_on_site_B, Transition_from_cam_TR_CD_0_to_cam_RR_CD_0 and as a product in ca_binding_to_cam_TR_D_0_on_site_C, ca_binding_to_cam_TR_C_0_on_site_D, Transition_from_cam_TT_CD_0_to_cam_TR_CD_0 and as a modifier in ca_binding_to_cam_TR_D_0_on_site_C, ca_binding_to_cam_TR_C_0_on_site_D, rbp_binding_to_cam_TR_CD_0, tbp_binding_to_cam_TR_CD_0, ca_binding_to_cam_TR_CD_0_on_site_A, ca_binding_to_cam_TR_CD_0_on_site_B, Transition_from_cam_TR_CD_0_to_cam_RR_CD_0, Transition_from_cam_TT_CD_0_to_cam_TR_CD_0).

$$\frac{d}{dt}\text{cam_TR_CD_0} = v_{319} + v_{320} + v_{566} - v_{321} - v_{324} - v_{349} - v_{360} - v_{539} \quad (1332)$$

8.128 Species cam_TR_CD_rbp

Name cam_TR_CD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_CD_rbp_on_site_A, ca_binding_to_cam_TR_CD_rbp_on_site_B and as a product in rbp_binding_to_cam_TR_CD_0, ca_binding_to_cam_TR_D_rbp_on_site_C, ca_binding_to_cam_TR_C_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TR_CD_0, ca_binding_to_cam_TR_D_rbp_on_site_C, ca_binding_to_cam_TR_C_rbp_on_site_D, ca_binding_to_cam_TR_CD_rbp_on-site_A, ca_binding_to_cam_TR_CD_rbp_on_site_B).

$$\frac{d}{dt}\text{cam_TR_CD_rbp} = v_{321} + v_{322} + v_{323} - v_{353} - v_{364} \quad (1333)$$

8.129 Species cam_TR_CD_tbp

Name cam_TR_CD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_CD_tbp_on-site_A, ca_binding_to_cam_TR_CD_tbp_on-site_B and as a product in tbp_binding_to_cam_TR_CD_0, ca_binding_to_cam_TR_D_tbp_on-site_C, ca_binding_to_cam_TR_C_tbp_on-site_D and as a modifier in tbp_binding_to_cam_TR_CD_0, ca_binding_to_cam_TR_D_tbp_on-site_C, ca_binding_to_cam_TR_C_tbp_on-site_D, ca_binding_to_cam_TR_CD_tbp_on-site_A, ca_binding_to_cam_TR_CD_tbp_on-site_B).

$$\frac{d}{dt}\text{cam_TR_CD_tbp} = v_{324} + v_{325} + v_{326} - v_{357} - v_{368} \quad (1334)$$

8.130 Species cam_TR_ABC_0

Name cam_TR_ABC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_ABC_0, tbp_binding_to_cam_TR_ABC_0, ca_binding_to_cam_TR_ABC_0_on_site_D, Transition_from_cam_TR_ABC_0_to_cam_RR_ABC_0 and as a product in ca_binding_to_cam_TR_BC_0_on_site_A, ca_binding_to_cam_TR_AC_0_on_site_B, ca_binding_to_cam_TR_AB_0_on_site_C, Transition_from_cam_TT_ABC_0_to_cam_TR_ABC_0 and as a modifier in ca_binding_to_cam_TR_BC_0_on_site_A, ca_binding_to_cam_TR_AC_0_on_site_B, ca_binding_to_cam_TR_AB_0_on_site_C, rbp_binding_to_cam_TR_ABC_0, tbp_binding_to_cam_TR_ABC_0, ca_binding_to_cam_TR_ABC_0_on_site_D, Transition_from_cam_TR_ABC_0_to_cam_RR_ABC_0, Transition_from_cam_TT_ABC_0_to_cam_TR_ABC_0).

$$\frac{d}{dt}\text{cam_TR_ABC_0} = v_{327} + v_{328} + v_{329} + v_{568} - v_{330} - v_{334} - v_{374} - v_{540} \quad (1335)$$

8.131 Species cam_TR_ABC_rbp

Name cam_TR_ABC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_ABC_rbp_on_site_D and as a product in rbp_binding_to_cam_TR_ABC_0, ca_binding_to_cam_TR_BC_rbp_on_site_A, ca_binding_to_cam_TR_AC_rbp_on_site_B, ca_binding_to_cam_TR_AB_rbp_on_site_C and as a modifier in rbp_binding_to_cam_TR_ABC_0, ca_binding_to_cam_TR_BC_rbp_on_site_A, ca_binding_to_cam_TR_AC_rbp_on_site_B, ca_binding_to_cam_TR_AB_rbp_on_site_C, ca_binding_to_cam_TR_ABC_rbp_on_site_D).

$$\frac{d}{dt}\text{cam_TR_ABC_rbp} = v_{330} + v_{331} + v_{332} + v_{333} - v_{379} \quad (1336)$$

8.132 Species cam_TR_ABC_tbp

Name cam_TR_ABC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_ABC_tbp_on_site_D and as a product in tbp_binding_to_cam_TR_ABC_0, ca_binding_to_cam_TR_BC_tbp_on_site_A, ca_binding_to_cam_TR_AC_tbp_on_site_B, ca_binding_to_cam_TR_AB_tbp_on_site_C and as a modifier in tbp_binding_to_cam_TR_ABC_0, ca_binding_to_cam_TR_BC_tbp_on_site_A, ca_binding_to_cam_TR_AC_tbp_on_site_B, ca_binding_to_cam_TR_AB_tbp_on_site_C, ca_binding_to_cam_TR_ABC_tbp_on_site_D).

$$\frac{d}{dt}\text{cam_TR_ABC_tbp} = v_{334} + v_{335} + v_{336} + v_{337} - v_{384} \quad (1337)$$

8.133 Species cam_TR_ABD_0

Name cam_TR_ABD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_ABD_0, tbp_binding_to_cam_TR_ABD_0, ca_binding_to_cam_TR_ABD_0_on_site_C, Transition_from_cam_TR_ABD_0_to_cam_RR_ABD_0 and as a product in ca_binding_to_cam_TR_BD_0_on_site_A, ca_binding_to_cam_TR_AD_0_on_site_B, ca_binding_to_cam_TR_AB_0_on_site_D, Transition_from_cam_TT_ABD_0_to_cam_TR_ABD_0 and as a modifier in ca_binding_to_cam_TR_BD_0_on_site_A, ca_binding_to_cam_TR_AD_0_on_site_B, ca_binding_to_cam_TR_AB_0_on_site_D, rbp_binding_to_cam_TR_ABD_0, tbp_binding_to_cam_TR_ABD_0, ca_binding_to_cam_TR_ABD_0_on_site_C, Transition_from_cam_TR_ABD_0_to_cam_RR_ABD_0, Transition_from_cam_TT_ABD_0_to_cam_TR_ABD_0).

$$\frac{d}{dt} \text{cam_TR_ABD_0} = v_{338} + v_{339} + v_{340} + v_{570} - v_{341} - v_{345} - v_{373} - v_{541} \quad (1338)$$

8.134 Species cam_TR_ABD_rbp

Name cam_TR_ABD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_ABD_rbp_on_site_C and as a product in rbp_binding_to_cam_TR_ABD_0, ca_binding_to_cam_TR_BD_rbp_on_site_A, ca_binding_to_cam_TR_AD_rbp_on_site_B, ca_binding_to_cam_TR_AB_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TR_ABD_0, ca_binding_to_cam_TR_BD_rbp_on_site_A, ca_binding_to_cam_TR_AD_rbp_on_site_B, ca_binding_to_cam_TR_AB_rbp_on_site_D, ca_binding_to_cam_TR_ABD_rbp_on_site_C).

$$\frac{d}{dt} \text{cam_TR_ABD_rbp} = v_{341} + v_{342} + v_{343} + v_{344} - v_{378} \quad (1339)$$

8.135 Species cam_TR_ABD_tbp

Name cam_TR_ABD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_ABD_tbp_on_site_C and as a product in tbp_binding_to_cam_TR_ABD_0, ca_binding_to_cam_TR_BD_tbp_on_site_A, ca_binding_to_cam_TR_AD_tbp_on_site_B, ca_binding_to_cam_TR_AB_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TR_ABD_0, ca_binding_to_cam_TR_BD_tbp_on_site_A, ca_binding_to_cam_TR_AD_tbp_on_site_B, ca_binding_to_cam_TR_AB_tbp_on_site_D, ca_binding_to_cam_TR_ABD_tbp_on_site_C).

$$\frac{d}{dt} \text{cam_TR_ABD_tbp} = v_{345} + v_{346} + v_{347} + v_{348} - v_{383} \quad (1340)$$

8.136 Species cam_TR_ACD_0

Name cam_TR_ACD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_ACD_0, tbp_binding_to_cam_TR_ACD_0, ca_binding_to_cam_TR_ACD_0_on_site_B, Transition_from_cam_TR_ACD_0_to_cam_RR_ACD_0 and as a product in ca_binding_to_cam_TR_CD_0_on_site_A, ca_binding_to_cam_TR_AD_0_on_site_C, ca_binding_to_cam_TR_AC_0_on_site_D, Transition_from_cam_TT_ACD_0_to_cam_TR_ACD_0 and as a modifier in ca_binding_to_cam_TR_CD_0_on_site_A, ca_binding_to_cam_TR_AD_0_on_site_C, ca_binding_to_cam_TR_AC_0_on_site_D, rbp_binding_to_cam_TR_ACD_0, tbp_binding_to_cam_TR_ACD_0, ca_binding_to_cam_TR_ACD_0_on_site_B, Transition_from_cam_TR_ACD_0_to_cam_RR_ACD_0, Transition_from_cam_TT_ACD_0_to_cam_TR_ACD_0).

$$\frac{d}{dt}\text{cam_TR_ACD_0} = v_{349} + v_{350} + v_{351} + v_{572} - v_{352} - v_{356} - v_{372} - v_{542} \quad (1341)$$

8.137 Species cam_TR_ACD_rbp

Name cam_TR_ACD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_ACD_rbp_on_site_B and as a product in rbp_binding_to_cam_TR_ACD_0, ca_binding_to_cam_TR_CD_rbp_on_site_A, ca_binding_to_cam_TR_AD_rbp_on_site_C, ca_binding_to_cam_TR_AC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TR_ACD_0, ca_binding_to_cam_TR_CD_rbp_on_site_A, ca_binding_to_cam_TR_AD_rbp_on_site_C, ca_binding_to_cam_TR_AC_rbp_on_site_D, ca_binding_to_cam_TR_ACD_rbp_on_site_B).

$$\frac{d}{dt}\text{cam_TR_ACD_rbp} = v_{352} + v_{353} + v_{354} + v_{355} - v_{377} \quad (1342)$$

8.138 Species cam_TR_ACD_tbp

Name cam_TR_ACD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_ACD_tbp_on_site_B and as a product in tbp_binding_to_cam_TR_ACD_0, ca_binding_to_cam_TR_CD_tbp_on_site_A, ca_binding_to_cam_TR_AD_tbp_on_site_C, ca_binding_to_cam_TR_AC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TR_ACD_0, ca_binding_to_cam_TR_CD_tbp_on_site_A, ca_binding_to_cam_TR_AD_tbp_on_site_C, ca_binding_to_cam_TR_AC_tbp_on_site_D, ca_binding_to_cam_TR_ACD_tbp_on_site_B).

$$\frac{d}{dt}\text{cam_TR_ACD_tbp} = v_{356} + v_{357} + v_{358} + v_{359} - v_{382} \quad (1343)$$

8.139 Species cam_TR_BCD_0

Name cam_TR_BCD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_BCD_0, tbp_binding_to_cam_TR_BCD_0, ca_binding_to_cam_TR_BCD_0_on_site_A, Transition_from_cam_TR_BCD_0_to_cam_RR_BCD_0 and as a product in ca_binding_to_cam_TR_CD_0_on_site_B, ca_binding_to_cam_TR_BD_0_on_site_C, ca_binding_to_cam_TR_BC_0_on_site_D, Transition_from_cam_TT_BCD_0_to_cam_TR_BCD_0 and as a modifier in ca_binding_to_cam_TR_CD_0_on_site_B, ca_binding_to_cam_TR_BD_0_on_site_C, ca_binding_to_cam_TR_BC_0_on_site_D, rbp_binding_to_cam_TR_BCD_0, tbp_binding_to_cam_TR_BCD_0, ca_binding_to_cam_TR_BCD_0_on_site_A, Transition_from_cam_TR_BCD_0_to_cam_RR_BCD_0, Transition_from_cam_TT_BCD_0_to_cam_TR_BCD_0).

$$\frac{d}{dt}\text{cam_TR_BCD_0} = v_{360} + v_{361} + v_{362} + v_{574} - v_{363} - v_{367} - v_{371} - v_{543} \quad (1344)$$

8.140 Species cam_TR_BCD_rbp

Name cam_TR_BCD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_BCD_rbp_on_site_A and as a product in rbp_binding_to_cam_TR_BCD_0, ca_binding_to_cam_TR_CD_rbp_on_site_B, ca_binding_to_cam_TR_BD_rbp_on_site_C, ca_binding_to_cam_TR_BC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TR_BCD_0, ca_binding_to_cam_TR_CD_rbp_on_site_B, ca_binding_to_cam_TR_BD_rbp_on_site_C, ca_binding_to_cam_TR_BC_rbp_on_site_D, ca_binding_to_cam_TR_BCD_rbp_on_site_A).

$$\frac{d}{dt}\text{cam_TR_BCD_rbp} = v_{363} + v_{364} + v_{365} + v_{366} - v_{376} \quad (1345)$$

8.141 Species cam_TR_BCD_tbp

Name cam_TR_BCD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TR_BCD_tbp_on_site_A and as a product in tbp_binding_to_cam_TR_BCD_0, ca_binding_to_cam_TR_CD_tbp_on_site_B, ca_binding_to_cam_TR_BD_tbp_on_site_C, ca_binding_to_cam_TR_BC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TR_BCD_0, ca_binding_to_cam_TR_CD_tbp_on_site_B, ca_binding_to_cam_TR_BD_tbp_on_site_C, ca_binding_to_cam_TR_BC_tbp_on_site_D, ca_binding_to_cam_TR_BCD_tbp_on_site_A).

$$\frac{d}{dt}\text{cam_TR_BCD_tbp} = v_{367} + v_{368} + v_{369} + v_{370} - v_{381} \quad (1346)$$

8.142 Species cam_TR_ABCD_0

Name cam_TR_ABCD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TR_ABCD_0, tbp_binding_to_cam_TR_ABCD_0, Transition_from_cam_TR_ABCD_0_to_cam_RR_ABCD_0 and as a product in ca_binding_to_cam_TR_BCD_0_on_site_A, ca_binding_to_cam_TR_ACD_0_on_site_B, ca_binding_to_cam_TR_ABD_0_on_site_C, ca_binding_to_cam_TR_ABC_0_on_site_D, Transition_from_cam_TT_ABCD_0_to_cam_TR_ABCD_0 and as a modifier in ca_binding_to_cam_TR_BCD_0_on_site_A, ca_binding_to_cam_TR_ACD_0_on_site_B, ca_binding_to_cam_TR_ABD_0_on_site_C, ca_binding_to_cam_TR_ABC_0_on_site_D, rbp_binding_to_cam_TR_ABCD_0, tbp_binding_to_cam_TR_ABCD_0, Transition_from_cam_TR_ABCD_0_to_cam_RR_ABCD_0, Transition_from_cam_TT_ABCD_0_to_cam_TR_ABCD_0).

$$\frac{d}{dt} \text{cam_TR_ABCD_0} = v_{371} + v_{372} + v_{373} + v_{374} + v_{576} - v_{375} - v_{380} - v_{544} \quad (1347)$$

8.143 Species cam_TR_ABCD_rbp

Name cam_TR_ABCD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a product in rbp_binding_to_cam_TR_ABCD_0, ca_binding_to_cam_TR_BCD_rbp_on_site_A, ca_binding_to_cam_TR_ACD_rbp_on_site_B, ca_binding_to_cam_TR_ABD_rbp_on_site_C, ca_binding_to_cam_TR_ABC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TR_ABCD_0, ca_binding_to_cam_TR_BCD_rbp_on_site_A, ca_binding_to_cam_TR_ACD_rbp_on_site_B, ca_binding_to_cam_TR_ABD_rbp_on_site_C, ca_binding_to_cam_TR_ABC_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TR_ABCD_rbp} = v_{375} + v_{376} + v_{377} + v_{378} + v_{379} \quad (1348)$$

8.144 Species cam_TR_ABCD_tbp

Name cam_TR_ABCD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a product in tbp_binding_to_cam_TR_ABCD_0, ca_binding_to_cam_TR_BCD_tbp_on_site_A, ca_binding_to_cam_TR_ACD_tbp_on_site_B, ca_binding_to_cam_TR_ABD_tbp_on_site_C, ca_binding_to_cam_TR_ABC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TR_ABCD_0, ca_binding_to_cam_TR_BCD_tbp_on_site_A, ca_binding_to_cam_TR_ACD_tbp_on_site_B, ca_binding_to_cam_TR_ABD_tbp_on_site_C, ca_binding_to_cam_TR_ABC_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TR_ABCD_tbp} = v_{380} + v_{381} + v_{382} + v_{383} + v_{384} \quad (1349)$$

8.145 Species cam_TT_0_0

Name cam_TT_0_0

Initial concentration $3.3 \cdot 10^{-5} \text{ mol} \cdot \text{l}^{-1}$

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_0_0, tbp_binding_to_cam_TT_0_0, ca_binding_to_cam_TT_0_0_on_site_A, ca_binding_to_cam_TT_0_0_on_site_B, ca_binding_to_cam_TT_0_0_on_site_C, ca_binding_to_cam_TT_0_0_on_site_D, Transition_from_cam_TT_0_0_to_cam_RT_0_0, Transition_from_cam_TT_0_0_to_cam_TR_0_0 and as a modifier in rbp_binding_to_cam_TT_0_0, tbp_binding_to_cam_TT_0_0, ca_binding_to_cam_TT_0_0_on_site_A, ca_binding_to_cam_TT_0_0_on_site_B, ca_binding_to_cam_TT_0_0_on_site_C, ca_binding_to_cam_TT_0_0_on_site_D, Transition_from_cam_TT_0_0_to_cam_RT_0_0, Transition_from_cam_TT_0_0_to_cam_TR_0_0).

$$\frac{d}{dt} \text{cam_TT_0_0} = -v_{385} - v_{386} - v_{387} - v_{392} - v_{397} - v_{402} - v_{545} - v_{546} \quad (1350)$$

8.146 Species cam_TT_0_rbp

Name cam_TT_0_rbp

Initial concentration $0 \text{ mol} \cdot \text{l}^{-1}$

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_0_rbp_on_site_A, ca_binding_to_cam_TT_0_rbp_on_site_B, ca_binding_to_cam_TT_0_rbp_on_site_C, ca_binding_to_cam_TT_0_rbp_on_site_D and as a product in rbp_binding_to_cam_TT_0_0 and as a modifier in rbp_binding_to_cam_TT_0_0, ca_binding_to_cam_TT_0_rbp_on_site_A, ca_binding_to_cam_TT_0_rbp_on_site_B, ca_binding_to_cam_TT_0_rbp_on_site_C, ca_binding_to_cam_TT_0_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_0_rbp} = v_{385} - v_{389} - v_{394} - v_{399} - v_{404} \quad (1351)$$

8.147 Species cam_TT_0_tbp

Name cam_TT_0_tbp

Initial concentration $0 \text{ mol} \cdot \text{l}^{-1}$

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_0_tbp_on_site_A, ca_binding_to_cam_TT_0_tbp_on_site_B, ca_binding_to_cam_TT_0_tbp_on_site_C, ca_binding_to_cam_TT_0_tbp_on_site_D and as a product in tbp_binding_to_cam_TT_0_0 and as a modifier in tbp_binding_to_cam_TT_0_0, ca_binding_to_cam_TT_0_tbp_on_site_A, ca_binding_to_cam_TT_0_tbp_on_site_B, ca_binding_to_cam_TT_0_tbp_on_site_C, ca_binding_to_cam_TT_0_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_0_tbp} = v_{386} - v_{391} - v_{396} - v_{401} - v_{406} \quad (1352)$$

8.148 Species cam_TT_A_0

Name cam_TT_A_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_A_0, tbp_binding_to_cam_TT_A_0, ca_binding_to_cam_TT_A_0_on_site_B, ca_binding_to_cam_TT_A_0_on_site_C, ca_binding_to_cam_TT_A_0_on_site_D, Transition_from_cam_TT_A_0_to_cam_RT_A_0, Transition_from_cam_TT_A_0_to_cam_TR_A_0 and as a product in ca_binding_to_cam_TT_0_0_on_site_A, rbp_binding_to_cam_TT_A_0, tbp_binding_to_cam_TT_A_0, ca_binding_to_cam_TT_A_0_on_site_B, ca_binding_to_cam_TT_A_0_on_site_C, ca_binding_to_cam_TT_A_0_on_site_D, Transition_from_cam_TT_A_0_to_cam_RT_A_0, Transition_from_cam_TT_A_0_to_cam_TR_A_0).

$$\frac{d}{dt} \text{cam_TT_A_0} = v_{387} - v_{388} - v_{390} - v_{408} - v_{416} - v_{424} - v_{547} - v_{548} \quad (1353)$$

8.149 Species cam_TT_A_rbp

Name cam_TT_A_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_A_rbp_on_site_B, ca_binding_to_cam_TT_A_rbp_on_site_C, ca_binding_to_cam_TT_A_rbp_on_site_D and as a product in rbp_binding_to_cam_TT_A_0, ca_binding_to_cam_TT_0_rbp_on_site_A and as a modifier in rbp_binding_to_cam_TT_A_0, ca_binding_to_cam_TT_0_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on_site_B, ca_binding_to_cam_TT_A_rbp_on_site_C, ca_binding_to_cam_TT_A_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_A_rbp} = v_{388} + v_{389} - v_{411} - v_{419} - v_{427} \quad (1354)$$

8.150 Species cam_TT_A_tbp

Name cam_TT_A_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_A_tbp_on_site_B, ca_binding_to_cam_TT_A_tbp_on_site_C, ca_binding_to_cam_TT_A_tbp_on_site_D and as a product in tbp_binding_to_cam_TT_A_0, ca_binding_to_cam_TT_0_tbp_on_site_A and as a modifier in tbp_binding_to_cam_TT_A_0, ca_binding_to_cam_TT_0_tbp_on_site_A, ca_binding_to_cam_TT_A_tbp_on_site_B, ca_binding_to_cam_TT_A_tbp_on_site_C, ca_binding_to_cam_TT_A_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_A_tbp} = v_{390} + v_{391} - v_{414} - v_{422} - v_{430} \quad (1355)$$

8.151 Species cam_TT_B_0

Name cam_TT_B_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_B_0, tbp_binding_to_cam_TT_B_0, ca_binding_to_cam_TT_B_0_on_site_A, ca_binding_to_cam_TT_B_0_on_site_C, ca_binding_to_cam_TT_B_0_on_site_D, Transition_from_cam_TT_B_0_to_cam_RT_B_0, Transition_from_cam_TT_B_0_to_cam_TR_B_0 and as a product in ca_binding_to_cam_TT_0_0_on_site_B and as a modifier in ca_binding_to_cam_TT_0_0_on_site_B, rbp_binding_to_cam_TT_B_0, tbp_binding_to_cam_TT_B_0, ca_binding_to_cam_TT_B_0_on_site_A, ca_binding_to_cam_TT_B_0_on_site_C, ca_binding_to_cam_TT_B_0_on_site_D, Transition_from_cam_TT_B_0_to_cam_RT_B_0, Transition_from_cam_TT_B_0_to_cam_TR_B_0).

$$\frac{d}{dt} \text{cam_TT_B_0} = v_{392} - v_{393} - v_{395} - v_{407} - v_{432} - v_{440} - v_{549} - v_{550} \quad (1356)$$

8.152 Species cam_TT_B_rbp

Name cam_TT_B_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_B_rbp_on_site_A, ca_binding_to_cam_TT_B_rbp_on_site_C, ca_binding_to_cam_TT_B_rbp_on_site_D and as a product in rbp_binding_to_cam_TT_B_0, ca_binding_to_cam_TT_0_rbp_on_site_B and as a modifier in rbp_binding_to_cam_TT_B_0, ca_binding_to_cam_TT_0_rbp_on_site_B, ca_binding_to_cam_TT_B_rbp_on_site_A, ca_binding_to_cam_TT_B_rbp_on_site_C, ca_binding_to_cam_TT_B_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_B_rbp} = v_{393} + v_{394} - v_{410} - v_{435} - v_{443} \quad (1357)$$

8.153 Species cam_TT_B_tbp

Name cam_TT_B_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_B_tbp_on_site_A, ca_binding_to_cam_TT_B_tbp_on_site_C, ca_binding_to_cam_TT_B_tbp_on_site_D and as a product in tbp_binding_to_cam_TT_B_0, ca_binding_to_cam_TT_0_tbp_on_site_B and as a modifier in tbp_binding_to_cam_TT_B_0, ca_binding_to_cam_TT_0_tbp_on_site_B, ca_binding_to_cam_TT_B_tbp_on_site_A, ca_binding_to_cam_TT_B_tbp_on_site_C, ca_binding_to_cam_TT_B_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_B_tbp} = v_{395} + v_{396} - v_{413} - v_{438} - v_{446} \quad (1358)$$

8.154 Species cam_TT_C_0

Name cam_TT_C_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_C_0, tbp_binding_to_cam_TT_C_0, ca_binding_to_cam_TT_C_0_on_site_A, ca_binding_to_cam_TT_C_0_on_site_B, ca_binding_to_cam_TT_C_0_on_site_D, Transition_from_cam_TT_C_0_to_cam_RT_C_0, Transition_from_cam_TT_C_0_to_cam_TR_C_0 and as a product in ca_binding_to_cam_TT_0_0_on_site_C, rbp_binding_to_cam_TT_C_0, tbp_binding_to_cam_TT_C_0, ca_binding_to_cam_TT_C_0_on_site_A, ca_binding_to_cam_TT_C_0_on_site_B, ca_binding_to_cam_TT_C_0_on_site_D, Transition_from_cam_TT_C_0_to_cam_RT_C_0, Transition_from_cam_TT_C_0_to_cam_TR_C_0).

$$\frac{d}{dt} \text{cam_TT_C_0} = v_{397} - v_{398} - v_{400} - v_{415} - v_{431} - v_{448} - v_{551} - v_{552} \quad (1359)$$

8.155 Species cam_TT_C_rbp

Name cam_TT_C_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_C_rbp_on_site_A, ca_binding_to_cam_TT_C_rbp_on_site_B, ca_binding_to_cam_TT_C_rbp_on_site_D and as a product in rbp_binding_to_cam_TT_C_0, ca_binding_to_cam_TT_0_rbp_on_site_C and as a modifier in rbp_binding_to_cam_TT_C_0, ca_binding_to_cam_TT_0_rbp_on_site_C, ca_binding_to_cam_TT_C_rbp_on_site_A, ca_binding_to_cam_TT_C_rbp_on_site_B, ca_binding_to_cam_TT_C_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_C_rbp} = v_{398} + v_{399} - v_{418} - v_{434} - v_{451} \quad (1360)$$

8.156 Species cam_TT_C_tbp

Name cam_TT_C_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_C_tbp_on_site_A, ca_binding_to_cam_TT_C_tbp_on_site_B, ca_binding_to_cam_TT_C_tbp_on_site_D and as a product in tbp_binding_to_cam_TT_C_0, ca_binding_to_cam_TT_0_tbp_on_site_C and as a modifier in tbp_binding_to_cam_TT_C_0, ca_binding_to_cam_TT_0_tbp_on_site_C, ca_binding_to_cam_TT_C_tbp_on_site_A, ca_binding_to_cam_TT_C_tbp_on_site_B, ca_binding_to_cam_TT_C_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_C_tbp} = v_{400} + v_{401} - v_{421} - v_{437} - v_{454} \quad (1361)$$

8.157 Species cam_TT_D_0

Name cam_TT_D_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_D_0, tbp_binding_to_cam_TT_D_0, ca_binding_to_cam_TT_D_0_on_site_A, ca_binding_to_cam_TT_D_0_on_site_B, ca_binding_to_cam_TT_D_0_on_site_C, Transition_from_cam_TT_D_0_to_cam_RT_D_0, Transition_from_cam_TT_D_0_to_cam_TR_D_0 and as a product in ca_binding_to_cam_TT_0_0_on_site_D and as a modifier in ca_binding_to_cam_TT_0_0_on_site_D, rbp_binding_to_cam_TT_D_0, tbp_binding_to_cam_TT_D_0, ca_binding_to_cam_TT_D_0_on_site_A, ca_binding_to_cam_TT_D_0_on_site_B, ca_binding_to_cam_TT_D_0_on_site_C, Transition_from_cam_TT_D_0_to_cam_RT_D_0, Transition_from_cam_TT_D_0_to_cam_TR_D_0).

$$\frac{d}{dt} \text{cam_TT_D_0} = v_{402} - v_{403} - v_{405} - v_{423} - v_{439} - v_{447} - v_{553} - v_{554} \quad (1362)$$

8.158 Species cam_TT_D_rbp

Name cam_TT_D_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_D_rbp_on_site_A, ca_binding_to_cam_TT_D_rbp_on_site_B, ca_binding_to_cam_TT_D_rbp_on_site_C and as a product in rbp_binding_to_cam_TT_D_0, ca_binding_to_cam_TT_0_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TT_D_0, ca_binding_to_cam_TT_0_rbp_on_site_D, ca_binding_to_cam_TT_D_rbp_on_site_A, ca_binding_to_cam_TT_D_rbp_on_site_B, ca_binding_to_cam_TT_D_rbp_on_site_C).

$$\frac{d}{dt} \text{cam_TT_D_rbp} = v_{403} + v_{404} - v_{426} - v_{442} - v_{450} \quad (1363)$$

8.159 Species cam_TT_D_tbp

Name cam_TT_D_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_D_tbp_on_site_A, ca_binding_to_cam_TT_D_tbp_on_site_B, ca_binding_to_cam_TT_D_tbp_on_site_C and as a product in tbp_binding_to_cam_TT_D_0, ca_binding_to_cam_TT_0_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TT_D_0, ca_binding_to_cam_TT_0_tbp_on_site_D, ca_binding_to_cam_TT_D_tbp_on_site_A, ca_binding_to_cam_TT_D_tbp_on_site_B, ca_binding_to_cam_TT_D_tbp_on_site_C).

$$\frac{d}{dt} \text{cam_TT_D_tbp} = v_{405} + v_{406} - v_{429} - v_{445} - v_{453} \quad (1364)$$

8.160 Species cam_TT_AB_0

Name cam_TT_AB_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_AB_0, tbp_binding_to_cam_TT_AB_0, ca_binding_to_cam_TT_AB_0_on_site_C, ca_binding_to_cam_TT_AB_0_on_site_D, Transition_from_cam_TT_AB_0_to_cam_RT_AB_0, Transition_from_cam_TT_AB_0_to_cam_TR_AB_0 and as a product in ca_binding_to_cam_TT_B_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_B and as a modifier in ca_binding_to_cam_TT_B_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_B, rbp_binding_to_cam_TT_AB_0, tbp_binding_to_cam_TT_AB_0, ca_binding_to_cam_TT_AB_0_on_site_C, ca_binding_to_cam_TT_AB_0_on_site_D, Transition_from_cam_TT_AB_0_to_cam_RT_AB_0, Transition_from_cam_TT_AB_0_to_cam_TR_AB_0).

$$\frac{d}{dt}\text{cam_TT_AB_0} = v_{407} + v_{408} - v_{409} - v_{412} - v_{457} - v_{468} - v_{555} - v_{556} \quad (1365)$$

8.161 Species cam_TT_AB_rbp

Name cam_TT_AB_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_AB_rbp_on_site_C, ca_binding_to_cam_TT_AB_rbp_on_site_D and as a product in rbp_binding_to_cam_TT_AB_0, ca_binding_to_cam_TT_B_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on-site_B and as a modifier in rbp_binding_to_cam_TT_AB_0, ca_binding_to_cam_TT_B_rbp_on-site_A, ca_binding_to_cam_TT_A_rbp_on-site_B, ca_binding_to_cam_TT_AB_rbp_on-site_C, ca_binding_to_cam_TT_AB_rbp_on-site_D).

$$\frac{d}{dt}\text{cam_TT_AB_rbp} = v_{409} + v_{410} + v_{411} - v_{461} - v_{472} \quad (1366)$$

8.162 Species cam_TT_AB_tbp

Name cam_TT_AB_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_AB_tbp_on-site_C, ca_binding_to_cam_TT_AB_tbp_on-site_D and as a product in tbp_binding_to_cam_TT_AB_0, ca_binding_to_cam_TT_B_tbp_on-site_A, ca_binding_to_cam_TT_A_tbp_on-site_B and as a modifier in tbp_binding_to_cam_TT_AB_0, ca_binding_to_cam_TT_B_tbp_on-site_A, ca_binding_to_cam_TT_A_tbp_on-site_B, ca_binding_to_cam_TT_AB_tbp_on-site_C, ca_binding_to_cam_TT_AB_tbp_on-site_D).

$$\frac{d}{dt}\text{cam_TT_AB_tbp} = v_{412} + v_{413} + v_{414} - v_{465} - v_{476} \quad (1367)$$

8.163 Species cam_TT_AC_0

Name cam_TT_AC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_AC_0, tbp_binding_to_cam_TT_AC_0, ca_binding_to_cam_TT_AC_0_on_site_B, ca_binding_to_cam_TT_AC_0_on_site_D, Transition_from_cam_TT_AC_0_to_cam_RT_AC_0, Transition_from_cam_TT_AC_0_to_cam_TR_AC_0 and as a product in ca_binding_to_cam_TT_C_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_C and as a modifier in ca_binding_to_cam_TT_C_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_C, rbp_binding_to_cam_TT_AC_0, tbp_binding_to_cam_TT_AC_0, ca_binding_to_cam_TT_AC_0_on_site_B, ca_binding_to_cam_TT_AC_0_on_site_D, Transition_from_cam_TT_AC_0_to_cam_RT_AC_0, Transition_from_cam_TT_AC_0_to_cam_TR_AC_0).

$$\frac{d}{dt} \text{cam_TT_AC_0} = v_{415} + v_{416} - v_{417} - v_{420} - v_{456} - v_{479} - v_{557} - v_{558} \quad (1368)$$

8.164 Species cam_TT_AC_rbp

Name cam_TT_AC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_AC_rbp_on_site_B, ca_binding_to_cam_TT_AC_rbp_on_site_D and as a product in rbp_binding_to_cam_TT_AC_0, ca_binding_to_cam_TT_C_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on-site_C and as a modifier in rbp_binding_to_cam_TT_AC_0, ca_binding_to_cam_TT_C_rbp_on-site_A, ca_binding_to_cam_TT_A_rbp_on-site_C, ca_binding_to_cam_TT_AC_rbp_on-site_B, ca_binding_to_cam_TT_AC_rbp_on-site_D).

$$\frac{d}{dt} \text{cam_TT_AC_rbp} = v_{417} + v_{418} + v_{419} - v_{460} - v_{483} \quad (1369)$$

8.165 Species cam_TT_AC_tbp

Name cam_TT_AC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_AC_tbp_on-site_B, ca_binding_to_cam_TT_AC_tbp_on-site_D and as a product in tbp_binding_to_cam_TT_AC_0, ca_binding_to_cam_TT_C_tbp_on-site_A, ca_binding_to_cam_TT_A_tbp_on-site_C and as a modifier in tbp_binding_to_cam_TT_AC_0, ca_binding_to_cam_TT_C_tbp_on-site_A, ca_binding_to_cam_TT_A_tbp_on-site_C, ca_binding_to_cam_TT_AC_tbp_on-site_B, ca_binding_to_cam_TT_AC_tbp_on-site_D).

$$\frac{d}{dt} \text{cam_TT_AC_tbp} = v_{420} + v_{421} + v_{422} - v_{464} - v_{487} \quad (1370)$$

8.166 Species cam_TT_AD_0

Name cam_TT_AD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_AD_0, tbp_binding_to_cam_TT_AD_0, ca_binding_to_cam_TT_AD_0_on_site_B, ca_binding_to_cam_TT_AD_0_on_site_C, Transition_from_cam_TT_AD_0_to_cam_RT_AD_0, Transition_from_cam_TT_AD_0_to_cam_TR_AD_0 and as a product in ca_binding_to_cam_TT_D_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_D and as a modifier in ca_binding_to_cam_TT_D_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_D, rbp_binding_to_cam_TT_AD_0, tbp_binding_to_cam_TT_AD_0, ca_binding_to_cam_TT_AD_0_on_site_B, ca_binding_to_cam_TT_AD_0_on_site_C, Transition_from_cam_TT_AD_0_to_cam_RT_AD_0, Transition_from_cam_TT_AD_0_to_cam_TR_AD_0).

$$\frac{d}{dt}\text{cam_TT_AD_0} = v_{423} + v_{424} - v_{425} - v_{428} - v_{467} - v_{478} - v_{559} - v_{560} \quad (1371)$$

8.167 Species cam_TT_AD_rbp

Name cam_TT_AD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_AD_rbp_on_site_B, ca_binding_to_cam_TT_AD_rbp_on_site_C and as a product in rbp_binding_to_cam_TT_AD_0, ca_binding_to_cam_TT_D_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on-site_D and as a modifier in rbp_binding_to_cam_TT_AD_0, ca_binding_to_cam_TT_D_rbp_on-site_A, ca_binding_to_cam_TT_A_rbp_on-site_D, ca_binding_to_cam_TT_AD_rbp_on-site_B, ca_binding_to_cam_TT_AD_rbp_on-site_C).

$$\frac{d}{dt}\text{cam_TT_AD_rbp} = v_{425} + v_{426} + v_{427} - v_{471} - v_{482} \quad (1372)$$

8.168 Species cam_TT_AD_tbp

Name cam_TT_AD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_AD_tbp_on-site_B, ca_binding_to_cam_TT_AD_tbp_on-site_C and as a product in tbp_binding_to_cam_TT_AD_0, ca_binding_to_cam_TT_D_tbp_on-site_A, ca_binding_to_cam_TT_A_tbp_on-site_D and as a modifier in tbp_binding_to_cam_TT_AD_0, ca_binding_to_cam_TT_D_tbp_on-site_A, ca_binding_to_cam_TT_A_tbp_on-site_D, ca_binding_to_cam_TT_AD_tbp_on-site_B, ca_binding_to_cam_TT_AD_tbp_on-site_C).

$$\frac{d}{dt}\text{cam_TT_AD_tbp} = v_{428} + v_{429} + v_{430} - v_{475} - v_{486} \quad (1373)$$

8.169 Species cam_TT_BC_0

Name cam_TT_BC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_BC_0, tbp_binding_to_cam_TT_BC_0, ca_binding_to_cam_TT_BC_0_on_site_A, ca_binding_to_cam_TT_BC_0_on_site_D, Transition_from_cam_TT_BC_0_to_cam_RT_BC_0, Transition_from_cam_TT_BC_0_to_cam_TR_BC_0 and as a product in ca_binding_to_cam_TT_C_0_on_site_B, ca_binding_to_cam_TT_B_0_on_site_C and as a modifier in ca_binding_to_cam_TT_C_0_on_site_B, ca_binding_to_cam_TT_B_0_on_site_C, rbp_binding_to_cam_TT_BC_0, tbp_binding_to_cam_TT_BC_0, ca_binding_to_cam_TT_BC_0_on_site_A, ca_binding_to_cam_TT_BC_0_on_site_D, Transition_from_cam_TT_BC_0_to_cam_RT_BC_0, Transition_from_cam_TT_BC_0_to_cam_TR_BC_0).

$$\frac{d}{dt}\text{cam_TT_BC_0} = v_{431} + v_{432} - v_{433} - v_{436} - v_{455} - v_{490} - v_{561} - v_{562} \quad (1374)$$

8.170 Species cam_TT_BC_rbp

Name cam_TT_BC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_BC_rbp_on_site_A, ca_binding_to_cam_TT_BC_rbp_on_site_D and as a product in rbp_binding_to_cam_TT_BC_0, ca_binding_to_cam_TT_C_rbp_on_site_B, ca_binding_to_cam_TT_B_rbp_on-site_C and as a modifier in rbp_binding_to_cam_TT_BC_0, ca_binding_to_cam_TT_C_rbp_on-site_B, ca_binding_to_cam_TT_B_rbp_on-site_C, ca_binding_to_cam_TT_BC_rbp_on-site_A, ca_binding_to_cam_TT_BC_rbp_on-site_D).

$$\frac{d}{dt}\text{cam_TT_BC_rbp} = v_{433} + v_{434} + v_{435} - v_{459} - v_{494} \quad (1375)$$

8.171 Species cam_TT_BC_tbp

Name cam_TT_BC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_BC_tbp_on-site_A, ca_binding_to_cam_TT_BC_tbp_on-site_D and as a product in tbp_binding_to_cam_TT_BC_0, ca_binding_to_cam_TT_C_tbp_on-site_B, ca_binding_to_cam_TT_B_tbp_on-site_C and as a modifier in tbp_binding_to_cam_TT_BC_0, ca_binding_to_cam_TT_C_tbp_on-site_B, ca_binding_to_cam_TT_B_tbp_on-site_C, ca_binding_to_cam_TT_BC_tbp_on-site_A, ca_binding_to_cam_TT_BC_tbp_on-site_D).

$$\frac{d}{dt}\text{cam_TT_BC_tbp} = v_{436} + v_{437} + v_{438} - v_{463} - v_{498} \quad (1376)$$

8.172 Species cam_TT_BD_0

Name cam_TT_BD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_BD_0, tbp_binding_to_cam_TT_BD_0, ca_binding_to_cam_TT_BD_0_on_site_A, ca_binding_to_cam_TT_BD_0_on_site_C, Transition_from_cam_TT_BD_0_to_cam_RT_BD_0, Transition_from_cam_TT_BD_0_to_cam_TR_BD_0 and as a product in ca_binding_to_cam_TT_D_0_on_site_B, ca_binding_to_cam_TT_B_0_on_site_D and as a modifier in ca_binding_to_cam_TT_D_0_on_site_B, ca_binding_to_cam_TT_B_0_on_site_D, rbp_binding_to_cam_TT_BD_0, tbp_binding_to_cam_TT_BD_0, ca_binding_to_cam_TT_BD_0_on_site_A, ca_binding_to_cam_TT_BD_0_on_site_C, Transition_from_cam_TT_BD_0_to_cam_RT_BD_0, Transition_from_cam_TT_BD_0_to_cam_TR_BD_0).

$$\frac{d}{dt}\text{cam_TT_BD_0} = v_{439} + v_{440} - v_{441} - v_{444} - v_{466} - v_{489} - v_{563} - v_{564} \quad (1377)$$

8.173 Species cam_TT_BD_rbp

Name cam_TT_BD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_BD_rbp_on_site_A, ca_binding_to_cam_TT_BD_rbp_on_site_C and as a product in rbp_binding_to_cam_TT_BD_0, ca_binding_to_cam_TT_D_rbp_on_site_B, ca_binding_to_cam_TT_B_rbp_on-site_D and as a modifier in rbp_binding_to_cam_TT_BD_0, ca_binding_to_cam_TT_D_rbp_on-site_B, ca_binding_to_cam_TT_B_rbp_on-site_D, ca_binding_to_cam_TT_BD_rbp_on-site_A, ca_binding_to_cam_TT_BD_rbp_on-site_C).

$$\frac{d}{dt}\text{cam_TT_BD_rbp} = v_{441} + v_{442} + v_{443} - v_{470} - v_{493} \quad (1378)$$

8.174 Species cam_TT_BD_tbp

Name cam_TT_BD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_BD_tbp_on-site_A, ca_binding_to_cam_TT_BD_tbp_on-site_C and as a product in tbp_binding_to_cam_TT_BD_0, ca_binding_to_cam_TT_D_tbp_on-site_B, ca_binding_to_cam_TT_B_tbp_on-site_D and as a modifier in tbp_binding_to_cam_TT_BD_0, ca_binding_to_cam_TT_D_tbp_on-site_B, ca_binding_to_cam_TT_B_tbp_on-site_D, ca_binding_to_cam_TT_BD_tbp_on-site_A, ca_binding_to_cam_TT_BD_tbp_on-site_C).

$$\frac{d}{dt}\text{cam_TT_BD_tbp} = v_{444} + v_{445} + v_{446} - v_{474} - v_{497} \quad (1379)$$

8.175 Species cam_TT_CD_0

Name cam_TT_CD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_CD_0, tbp_binding_to_cam_TT_CD_0, ca_binding_to_cam_TT_CD_0_on_site_A, ca_binding_to_cam_TT_CD_0_on_site_B, Transition_from_cam_TT_CD_0_to_cam_RT_CD_0, Transition_from_cam_TT_CD_0_to_cam_TR_CD_0 and as a product in ca_binding_to_cam_TT_D_0_on_site_C, ca_binding_to_cam_TT_C_0_on_site_D and as a modifier in ca_binding_to_cam_TT_D_0_on_site_C, ca_binding_to_cam_TT_C_0_on_site_D, rbp_binding_to_cam_TT_CD_0, tbp_binding_to_cam_TT_CD_0, ca_binding_to_cam_TT_CD_0_on_site_A, ca_binding_to_cam_TT_CD_0_on_site_B, Transition_from_cam_TT_CD_0_to_cam_RT_CD_0, Transition_from_cam_TT_CD_0_to_cam_TR_CD_0).

$$\frac{d}{dt}\text{cam_TT_CD_0} = v_{447} + v_{448} - v_{449} - v_{452} - v_{477} - v_{488} - v_{565} - v_{566} \quad (1380)$$

8.176 Species cam_TT_CD_rbp

Name cam_TT_CD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_CD_rbp_on_site_A, ca_binding_to_cam_TT_CD_rbp_on_site_B and as a product in rbp_binding_to_cam_TT_CD_0, ca_binding_to_cam_TT_D_rbp_on_site_C, ca_binding_to_cam_TT_C_rbp_on-site_D and as a modifier in rbp_binding_to_cam_TT_CD_0, ca_binding_to_cam_TT_D_rbp_on-site_C, ca_binding_to_cam_TT_C_rbp_on-site_D, ca_binding_to_cam_TT_CD_rbp_on-site_A, ca_binding_to_cam_TT_CD_rbp_on-site_B).

$$\frac{d}{dt}\text{cam_TT_CD_rbp} = v_{449} + v_{450} + v_{451} - v_{481} - v_{492} \quad (1381)$$

8.177 Species cam_TT_CD_tbp

Name cam_TT_CD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_CD_tbp_on-site_A, ca_binding_to_cam_TT_CD_tbp_on-site_B and as a product in tbp_binding_to_cam_TT_CD_0, ca_binding_to_cam_TT_D_tbp_on-site_C, ca_binding_to_cam_TT_C_tbp_on-site_D and as a modifier in tbp_binding_to_cam_TT_CD_0, ca_binding_to_cam_TT_D_tbp_on-site_C, ca_binding_to_cam_TT_C_tbp_on-site_D, ca_binding_to_cam_TT_CD_tbp_on-site_A, ca_binding_to_cam_TT_CD_tbp_on-site_B).

$$\frac{d}{dt}\text{cam_TT_CD_tbp} = v_{452} + v_{453} + v_{454} - v_{485} - v_{496} \quad (1382)$$

8.178 Species cam_TT_ABC_0

Name cam_TT_ABC_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_ABC_0, tbp_binding_to_cam_TT_ABC_0, ca_binding_to_cam_TT_ABC_0_on_site_D, Transition_from_cam_TT_ABC_0_to_cam_RT_ABC_0, Transition_from_cam_TT_ABC_0_to_cam_TR_ABC_0 and as a product in ca_binding_to_cam_TT_BC_0_on_site_A, ca_binding_to_cam_TT_AC_0_on_site_B, ca_binding_to_cam_TT_AB_0_on_site_C and as a modifier in ca_binding_to_cam_TT_BC_0_on_site_A, ca_binding_to_cam_TT_AC_0_on_site_B, ca_binding_to_cam_TT_AB_0_on_site_C, rbp_binding_to_cam_TT_ABC_0, tbp_binding_to_cam_TT_ABC_0, ca_binding_to_cam_TT_ABC_0_on_site_D, Transition_from_cam_TT_ABC_0_to_cam_RT_ABC_0, Transition_from_cam_TT_ABC_0_to_cam_TR_ABC_0).

$$\frac{d}{dt} \text{cam_TT_ABC_0} = v_{455} + v_{456} + v_{457} - v_{458} - v_{462} - v_{502} - v_{567} - v_{568} \quad (1383)$$

8.179 Species cam_TT_ABC_rbp

Name cam_TT_ABC_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_ABC_rbp_on_site_D and as a product in rbp_binding_to_cam_TT_ABC_0, ca_binding_to_cam_TT_BC_rbp_on_site_A, ca_binding_to_cam_TT_AC_rbp_on_site_B, ca_binding_to_cam_TT_AB_rbp_on_site_C and as a modifier in rbp_binding_to_cam_TT_ABC_0, ca_binding_to_cam_TT_BC_rbp_on_site_A, ca_binding_to_cam_TT_AC_rbp_on_site_B, ca_binding_to_cam_TT_AB_rbp_on_site_C, ca_binding_to_cam_TT_ABC_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_ABC_rbp} = v_{458} + v_{459} + v_{460} + v_{461} - v_{507} \quad (1384)$$

8.180 Species cam_TT_ABC_tbp

Name cam_TT_ABC_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_ABC_tbp_on_site_D and as a product in tbp_binding_to_cam_TT_ABC_0, ca_binding_to_cam_TT_BC_tbp_on_site_A, ca_binding_to_cam_TT_AC_tbp_on_site_B, ca_binding_to_cam_TT_AB_tbp_on_site_C and as a modifier in tbp_binding_to_cam_TT_ABC_0, ca_binding_to_cam_TT_BC_tbp_on_site_A, ca_binding_to_cam_TT_AC_tbp_on_site_B, ca_binding_to_cam_TT_AB_tbp_on_site_C, ca_binding_to_cam_TT_ABC_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_ABC_tbp} = v_{462} + v_{463} + v_{464} + v_{465} - v_{512} \quad (1385)$$

8.181 Species cam_TT_ABD_0

Name cam_TT_ABD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_ABD_0, tbp_binding_to_cam_TT_ABD_0, ca_binding_to_cam_TT_ABD_0_on_site_C, Transition_from_cam_TT_ABD_0_to_cam_RT_ABD_0, Transition_from_cam_TT_ABD_0_to_cam_TR_ABD_0 and as a product in ca_binding_to_cam_TT_BD_0_on_site_A, ca_binding_to_cam_TT_AD_0_on_site_B, ca_binding_to_cam_TT_AB_0_on_site_D and as a modifier in ca_binding_to_cam_TT_BD_0_on_site_A, ca_binding_to_cam_TT_AD_0_on_site_B, ca_binding_to_cam_TT_AB_0_on_site_D, rbp_binding_to_cam_TT_ABD_0, tbp_binding_to_cam_TT_ABD_0, ca_binding_to_cam_TT_ABD_0_on_site_C, Transition_from_cam_TT_ABD_0_to_cam_RT_ABD_0, Transition_from_cam_TT_ABD_0_to_cam_TR_ABD_0).

$$\frac{d}{dt}\text{cam_TT_ABD_0} = v_{466} + v_{467} + v_{468} - v_{469} - v_{473} - v_{501} - v_{569} - v_{570} \quad (1386)$$

8.182 Species cam_TT_ABD_rbp

Name cam_TT_ABD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_ABD_rbp_on_site_C and as a product in rbp_binding_to_cam_TT_ABD_0, ca_binding_to_cam_TT_BD_rbp_on_site_A, ca_binding_to_cam_TT_AD_rbp_on_site_B, ca_binding_to_cam_TT_AB_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TT_ABD_0, ca_binding_to_cam_TT_BD_rbp_on_site_A, ca_binding_to_cam_TT_AD_rbp_on_site_B, ca_binding_to_cam_TT_AB_rbp_on_site_D, ca_binding_to_cam_TT_ABD_rbp_on_site_C).

$$\frac{d}{dt}\text{cam_TT_ABD_rbp} = v_{469} + v_{470} + v_{471} + v_{472} - v_{506} \quad (1387)$$

8.183 Species cam_TT_ABD_tbp

Name cam_TT_ABD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_ABD_tbp_on_site_C and as a product in tbp_binding_to_cam_TT_ABD_0, ca_binding_to_cam_TT_BD_tbp_on_site_A, ca_binding_to_cam_TT_AD_tbp_on_site_B, ca_binding_to_cam_TT_AB_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TT_ABD_0, ca_binding_to_cam_TT_BD_tbp_on_site_A, ca_binding_to_cam_TT_AD_tbp_on_site_B, ca_binding_to_cam_TT_AB_tbp_on_site_D, ca_binding_to_cam_TT_ABD_tbp_on_site_C).

$$\frac{d}{dt}\text{cam_TT_ABD_tbp} = v_{473} + v_{474} + v_{475} + v_{476} - v_{511} \quad (1388)$$

8.184 Species cam_TT_ACD_0

Name cam_TT_ACD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_ACD_0, tbp_binding_to_cam_TT_ACD_0, ca_binding_to_cam_TT_ACD_0_on_site_B, Transition_from_cam_TT_ACD_0_to_cam_RT_ACD_0, Transition_from_cam_TT_ACD_0_to_cam_TR_ACD_0 and as a product in ca_binding_to_cam_TT_CD_0_on_site_A, ca_binding_to_cam_TT_AD_0_on_site_C, ca_binding_to_cam_TT_AC_0_on_site_D and as a modifier in ca_binding_to_cam_TT_CD_0_on_site_A, ca_binding_to_cam_TT_AD_0_on_site_C, ca_binding_to_cam_TT_AC_0_on_site_D, rbp_binding_to_cam_TT_ACD_0, tbp_binding_to_cam_TT_ACD_0, ca_binding_to_cam_TT_ACD_0_on_site_B, Transition_from_cam_TT_ACD_0_to_cam_RT_ACD_0, Transition_from_cam_TT_ACD_0_to_cam_TR_ACD_0).

$$\frac{d}{dt}\text{cam_TT_ACD_0} = v_{477} + v_{478} + v_{479} - v_{480} - v_{484} - v_{500} - v_{571} - v_{572} \quad (1389)$$

8.185 Species cam_TT_ACD_rbp

Name cam_TT_ACD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_ACD_rbp_on_site_B and as a product in rbp_binding_to_cam_TT_ACD_0, ca_binding_to_cam_TT_CD_rbp_on_site_A, ca_binding_to_cam_TT_AD_rbp_on_site_C, ca_binding_to_cam_TT_AC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TT_ACD_0, ca_binding_to_cam_TT_CD_rbp_on_site_A, ca_binding_to_cam_TT_AD_rbp_on_site_C, ca_binding_to_cam_TT_AC_rbp_on_site_D, ca_binding_to_cam_TT_ACD_rbp_on_site_B).

$$\frac{d}{dt}\text{cam_TT_ACD_rbp} = v_{480} + v_{481} + v_{482} + v_{483} - v_{505} \quad (1390)$$

8.186 Species cam_TT_ACD_tbp

Name cam_TT_ACD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_ACD_tbp_on_site_B and as a product in tbp_binding_to_cam_TT_ACD_0, ca_binding_to_cam_TT_CD_tbp_on_site_A, ca_binding_to_cam_TT_AD_tbp_on_site_C, ca_binding_to_cam_TT_AC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TT_ACD_0, ca_binding_to_cam_TT_CD_tbp_on_site_A, ca_binding_to_cam_TT_AD_tbp_on_site_C, ca_binding_to_cam_TT_AC_tbp_on_site_D, ca_binding_to_cam_TT_ACD_tbp_on_site_B).

$$\frac{d}{dt}\text{cam_TT_ACD_tbp} = v_{484} + v_{485} + v_{486} + v_{487} - v_{510} \quad (1391)$$

8.187 Species cam_TT_BCD_0

Name cam_TT_BCD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_BCD_0, tbp_binding_to_cam_TT_BCD_0, ca_binding_to_cam_TT_BCD_0_on_site_A, Transition_from_cam_TT_BCD_0_to_cam_RT_BCD_0, Transition_from_cam_TT_BCD_0_to_cam_TR_BCD_0 and as a product in ca_binding_to_cam_TT_CD_0_on_site_B, ca_binding_to_cam_TT_BD_0_on_site_C, ca_binding_to_cam_TT_BC_0_on_site_D and as a modifier in ca_binding_to_cam_TT_CD_0_on_site_B, ca_binding_to_cam_TT_BD_0_on_site_C, ca_binding_to_cam_TT_BC_0_on_site_D, rbp_binding_to_cam_TT_BCD_0, tbp_binding_to_cam_TT_BCD_0, ca_binding_to_cam_TT_BCD_0_on_site_A, Transition_from_cam_TT_BCD_0_to_cam_RT_BCD_0, Transition_from_cam_TT_BCD_0_to_cam_TR_BCD_0).

$$\frac{d}{dt}\text{cam_TT_BCD_0} = v_{488} + v_{489} + v_{490} - v_{491} - v_{495} - v_{499} - v_{573} - v_{574} \quad (1392)$$

8.188 Species cam_TT_BCD_rbp

Name cam_TT_BCD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_BCD_rbp_on_site_A and as a product in rbp_binding_to_cam_TT_BCD_0, ca_binding_to_cam_TT_CD_rbp_on_site_B, ca_binding_to_cam_TT_BD_rbp_on_site_C, ca_binding_to_cam_TT_BC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TT_BCD_0, ca_binding_to_cam_TT_CD_rbp_on_site_B, ca_binding_to_cam_TT_BD_rbp_on_site_C, ca_binding_to_cam_TT_BC_rbp_on_site_D, ca_binding_to_cam_TT_BCD_rbp_on_site_A).

$$\frac{d}{dt}\text{cam_TT_BCD_rbp} = v_{491} + v_{492} + v_{493} + v_{494} - v_{504} \quad (1393)$$

8.189 Species cam_TT_BCD_tbp

Name cam_TT_BCD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a reactant in ca_binding_to_cam_TT_BCD_tbp_on_site_A and as a product in tbp_binding_to_cam_TT_BCD_0, ca_binding_to_cam_TT_CD_tbp_on_site_B, ca_binding_to_cam_TT_BD_tbp_on_site_C, ca_binding_to_cam_TT_BC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TT_BCD_0, ca_binding_to_cam_TT_CD_tbp_on_site_B, ca_binding_to_cam_TT_BD_tbp_on_site_C, ca_binding_to_cam_TT_BC_tbp_on_site_D, ca_binding_to_cam_TT_BCD_tbp_on_site_A).

$$\frac{d}{dt}\text{cam_TT_BCD_tbp} = v_{495} + v_{496} + v_{497} + v_{498} - v_{509} \quad (1394)$$

8.190 Species cam_TT_ABCD_0

Name cam_TT_ABCD_0

Initial concentration 0 mol·l⁻¹

This species takes part in 16 reactions (as a reactant in rbp_binding_to_cam_TT_ABCD_0, tbp_binding_to_cam_TT_ABCD_0, Transition_from_cam_TT_ABCD_0_to_cam_RT_ABCD_0, Transition_from_cam_TT_ABCD_0_to_cam_TR_ABCD_0 and as a product in ca_binding_to_cam_TT_BCD_0_on_site_A, ca_binding_to_cam_TT_ACD_0_on_site_B, ca_binding_to_cam_TT_ABD_0_on_site_C, ca_binding_to_cam_TT_ABC_0_on_site_D and as a modifier in ca_binding_to_cam_TT_BCD_0_on_site_A, ca_binding_to_cam_TT_ACD_0_on_site_B, ca_binding_to_cam_TT_ABD_0_on_site_C, ca_binding_to_cam_TT_ABC_0_on_site_D, rbp_binding_to_cam_TT_ABCD_0, tbp_binding_to_cam_TT_ABCD_0, Transition_from_cam_TT_ABCD_0_to_cam_RT_ABCD_0, Transition_from_cam_TT_ABCD_0_to_cam_TR_ABCD_0).

$$\frac{d}{dt} \text{cam_TT_ABCD_0} = v_{499} + v_{500} + v_{501} + v_{502} - v_{503} - v_{508} - v_{575} - v_{576} \quad (1395)$$

8.191 Species cam_TT_ABCD_rbp

Name cam_TT_ABCD_rbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a product in rbp_binding_to_cam_TT_ABCD_0, ca_binding_to_cam_TT_BCD_rbp_on_site_A, ca_binding_to_cam_TT_ACD_rbp_on_site_B, ca_binding_to_cam_TT_ABD_rbp_on_site_C, ca_binding_to_cam_TT_ABC_rbp_on_site_D and as a modifier in rbp_binding_to_cam_TT_ABCD_0, ca_binding_to_cam_TT_BCD_rbp_on_site_A, ca_binding_to_cam_TT_ACD_rbp_on_site_B, ca_binding_to_cam_TT_ABD_rbp_on_site_C, ca_binding_to_cam_TT_ABC_rbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_ABCD_rbp} = v_{503} + v_{504} + v_{505} + v_{506} + v_{507} \quad (1396)$$

8.192 Species cam_TT_ABCD_tbp

Name cam_TT_ABCD_tbp

Initial concentration 0 mol·l⁻¹

This species takes part in ten reactions (as a product in tbp_binding_to_cam_TT_ABCD_0, ca_binding_to_cam_TT_BCD_tbp_on_site_A, ca_binding_to_cam_TT_ACD_tbp_on_site_B, ca_binding_to_cam_TT_ABD_tbp_on_site_C, ca_binding_to_cam_TT_ABC_tbp_on_site_D and as a modifier in tbp_binding_to_cam_TT_ABCD_0, ca_binding_to_cam_TT_BCD_tbp_on_site_A, ca_binding_to_cam_TT_ACD_tbp_on_site_B, ca_binding_to_cam_TT_ABD_tbp_on_site_C, ca_binding_to_cam_TT_ABC_tbp_on_site_D).

$$\frac{d}{dt} \text{cam_TT_ABCD_tbp} = v_{508} + v_{509} + v_{510} + v_{511} + v_{512} \quad (1397)$$

8.193 Species ca

Name ca

Initial concentration 0 mol · l⁻¹

_binding_to_cam_RT_CD_rbp_on_site_B, ca_binding_to_cam_RT_BD_rbp_on_site_C, ca_binding_to_cam_RT_BC_rbp_on_site_D, ca_binding_to_cam_RT_CD_tbp_on_site_B, ca_binding_to_cam_RT_BD_tbp_on_site_C, ca_binding_to_cam_RT_BC_tbp_on_site_D, ca_binding_to_cam_RT_BCD_0_on_site_A, ca_binding_to_cam_RT_ACD_0_on_site_B, ca_binding_to_cam_RT_ABD_0_on_site_C, ca_binding_to_cam_RT_ABC_0_on_site_D, ca_binding_to_cam_RT_BCD_rbp_on_site_A, ca_binding_to_cam_RT_ACD_rbp_on_site_B, ca_binding_to_cam_RT_ABD_rbp_on_site_C, ca_binding_to_cam_RT_ABC_rbp_on_site_D, ca_binding_to_cam_RT_BCD_tbp_on_site_A, ca_binding_to_cam_RT_ACD_tbp_on_site_B, ca_binding_to_cam_RT_ABD_tbp_on_site_C, ca_binding_to_cam_RT_ABC_tbp_on_site_D, ca_binding_to_cam_TR_0_0_on_site_A, ca_binding_to_cam_TR_0_rbp_on_site_A, ca_binding_to_cam_TR_0_tbp_on_site_A, ca_binding_to_cam_TR_0_0_on_site_B, ca_binding_to_cam_TR_0_rbp_on_site_B, ca_binding_to_cam_TR_0_tbp_on_site_B, ca_binding_to_cam_TR_0_0_on_site_C, ca_binding_to_cam_TR_0_rbp_on_site_C, ca_binding_to_cam_TR_0_tbp_on_site_C, ca_binding_to_cam_TR_0_0_on_site_D, ca_binding_to_cam_TR_0_rbp_on_site_D, ca_binding_to_cam_TR_0_tbp_on_site_D, ca_binding_to_cam_TR_B_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_B, ca_binding_to_cam_TR_B_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on_site_B, ca_binding_to_cam_TR_B_tbp_on_site_A, ca_binding_to_cam_TR_A_tbp_on_site_B, ca_binding_to_cam_TR_C_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_C, ca_binding_to_cam_TR_C_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on_site_C, ca_binding_to_cam_TR_C_tbp_on_site_A, ca_binding_to_cam_TR_A_tbp_on_site_C, ca_binding_to_cam_TR_D_0_on_site_A, ca_binding_to_cam_TR_A_0_on_site_D, ca_binding_to_cam_TR_D_rbp_on_site_A, ca_binding_to_cam_TR_A_rbp_on_site_D, ca_binding_to_cam_TR_D_tbp_on_site_A, ca_binding_to_cam_TR_A_tbp_on_site_D, ca_binding_to_cam_TR_C_0_on_site_B, ca_binding_to_cam_TR_B_0_on_site_C, ca_binding_to_cam_TR_C_rbp_on_site_B, ca_binding_to_cam_TR_B_rbp_on_site_C, ca_binding_to_cam_TR_C_tbp_on_site_B, ca_binding_to_cam_TR_B_tbp_on_site_C, ca_binding_to_cam_TR_D_0_on_site_B, ca_binding_to_cam_TR_D_rbp_on_site_B, ca_binding_to_cam_TR_B_rbp_on_site_D, ca_binding_to_cam_TR_D_tbp_on_site_B, ca_binding_to_cam_TR_B_tbp_on_site_D, ca_binding_to_cam_TR_D_0_on_site_C, ca_binding_to_cam_TR_C_0_on_site_D, ca_binding_to_cam_TR_D_rbp_on_site_C, ca_binding_to_cam_TR_C_rbp_on_site_D, ca_binding_to_cam_TR_D_tbp_on_site_C, ca_binding_to_cam_TR_C_tbp_on_site_D, ca_binding_to_cam_TR_BC_0_on_site_A, ca_binding_to_cam_TR_AC_0_on_site_B, ca_binding_to_cam_TR_AB_0_on_site_C, ca_binding_to_cam_TR_BC_rbp_on_site_A, ca_binding_to_cam_TR_AC_rbp_on_site_B, ca_binding_to_cam_TR_AB_rbp_on_site_C, ca_binding_to_cam_TR_BC_tbp_on_site_A, ca_binding_to_cam_TR_AC_tbp_on_site_B, ca_binding_to_cam_TR_AB_tbp_on_site_C, ca_binding_to_cam_TR_BD_0_on_site_A, ca_binding_to_cam_TR_AD_0_on_site_B, ca_binding_to_cam_TR_AB_0_on_site_D, ca_binding_to_cam_TR_BD_rbp_on_site_A, ca_binding_to_cam_TR_AB_rbp_on_site_B, ca_binding_to_cam_TR_AB_tbp_on_site_A, ca_binding_to_cam_TR_BD_tbp_on_site_B, ca_binding_to_cam_TR_AB_tbp_on_site_D, ca_binding_to_cam_TR_CD_0_on_site_A, ca_binding_to_cam_TR_AC_0_on_site_D, ca_binding_to_cam_TR_CD_rbp_on_site_A, ca_binding_to_cam_TR_AD_rbp_on_site_C, ca_binding_to_cam_TR_AC_rbp_on_site_D, ca_binding_to_cam_TR_CD_tbp_on_site_A, ca_binding_to_cam_TR_AD_tbp_on-

_site_C, ca_binding_to_cam_TR_AC_tbp_on_site_D, ca_binding_to_cam_TR_CD_0_on_site_B, ca_binding_to_cam_TR_BD_0_on_site_C, ca_binding_to_cam_TR_BC_0_on_site_D, ca_binding_to_cam_TR_CD_rbp_on_site_B, ca_binding_to_cam_TR_BD_rbp_on_site_C, ca_binding_to_cam_TR_BC_rbp_on_site_D, ca_binding_to_cam_TR_CD_tbp_on_site_B, ca_binding_to_cam_TR_BD_tbp_on_site_C, ca_binding_to_cam_TR_BC_tbp_on_site_D, ca_binding_to_cam_TR_BCD_0_on_site_A, ca_binding_to_cam_TR_ACD_0_on_site_B, ca_binding_to_cam_TR_ABD_0_on_site_C, ca_binding_to_cam_TR_ABC_0_on_site_D, ca_binding_to_cam_TR_BCD_rbp_on_site_A, ca_binding_to_cam_TR_ACD_rbp_on_site_B, ca_binding_to_cam_TR_ABD_rbp_on_site_C, ca_binding_to_cam_TR_ABC_rbp_on_site_D, ca_binding_to_cam_TR_BCD_tbp_on_site_A, ca_binding_to_cam_TR_ACD_tbp_on_site_B, ca_binding_to_cam_TR_ABD_tbp_on_site_C, ca_binding_to_cam_TR_ABC_tbp_on_site_D, ca_binding_to_cam_TT_0_0_on_site_A, ca_binding_to_cam_TT_0_0_rbp_on_site_A, ca_binding_to_cam_TT_0_0_tbp_on_site_A, ca_binding_to_cam_TT_0_0_on_site_B, ca_binding_to_cam_TT_0_0_rbp_on_site_B, ca_binding_to_cam_TT_0_0_tbp_on_site_B, ca_binding_to_cam_TT_0_0_on_site_C, ca_binding_to_cam_TT_0_rbp_on_site_C, ca_binding_to_cam_TT_0_tbp_on_site_C, ca_binding_to_cam_TT_0_0_on_site_D, ca_binding_to_cam_TT_0_rbp_on_site_D, ca_binding_to_cam_TT_0_tbp_on_site_D, ca_binding_to_cam_TT_0_0_tbp_on_site_D, ca_binding_to_cam_TT_B_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_B, ca_binding_to_cam_TT_B_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on_site_B, ca_binding_to_cam_TT_B_tbp_on_site_A, ca_binding_to_cam_TT_A_tbp_on_site_B, ca_binding_to_cam_TT_C_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_C, ca_binding_to_cam_TT_C_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on_site_C, ca_binding_to_cam_TT_C_tbp_on_site_A, ca_binding_to_cam_TT_A_tbp_on_site_C, ca_binding_to_cam_TT_D_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_D, ca_binding_to_cam_TT_D_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on_site_D, ca_binding_to_cam_TT_D_tbp_on-site_A, ca_binding_to_cam_TT_A_tbp_on_site_D, ca_binding_to_cam_TT_C_0_on_site_B, ca_binding_to_cam_TT_B_0_on_site_C, ca_binding_to_cam_TT_C_rbp_on_site_B, ca_binding_to_cam_TT_B_rbp_on_site_C, ca_binding_to_cam_TT_C_tbp_on_site_B, ca_binding_to_cam_TT_B_tbp_on_site_C, ca_binding_to_cam_TT_D_0_on_site_B, ca_binding_to_cam_TT_B_0_on_site_D, ca_binding_to_cam_TT_D_rbp_on_site_D, ca_binding_to_cam_TT_B_rbp_on_site_D, ca_binding_to_cam_TT_D_tbp_on-site_B, ca_binding_to_cam_TT_B_tbp_on-site_D, ca_binding_to_cam_TT_D_0_on_site_C, ca_binding_to_cam_TT_C_0_on_site_D, ca_binding_to_cam_TT_BC_0_on_site_A, ca_binding_to_cam_TT_AC_0_on_site_B, ca_binding_to_cam_TT_AB_0_on_site_C, ca_binding_to_cam_TT_BC_rbp_on_site_A, ca_binding_to_cam_TT_AB_rbp_on_site_C, ca_binding_to_cam_TT_BC_tbp_on_site_A, ca_binding_to_cam_TT_AC_tbp_on_site_B, ca_binding_to_cam_TT_AB_tbp_on-site_C, ca_binding_to_cam_TT_BD_0_on_site_A, ca_binding_to_cam_TT_AD_0_on_site_B, ca_binding_to_cam_TT_AB_0_on_site_D, ca_binding_to_cam_TT_BD_rbp_on-site_A, ca_binding_to_cam_TT_AB_rbp_on-site_D, ca_binding_to_cam_TT_BD_tbp_on-site_A, ca_binding_to_cam_TT_AD_tbp_on-site_B, ca_binding_to_cam_TT_AB_tbp_on-site_D, ca_binding_to_cam_TT_CD_0_on-site_A, ca_binding_to_cam_TT_AD_0_on-site_C, ca_binding_to_cam_TT_AC_0_on-site_D, ca_binding_to_cam_TT_CD-

_rbp_on_site_A, ca_binding_to_cam_TT_AD_rbp_on_site_C, ca_binding_to_cam_TT_AC_rbp-
_on_site_D, ca_binding_to_cam_TT_CD_tbp_on_site_A, ca_binding_to_cam_TT_AD_tbp_on-
_site_C, ca_binding_to_cam_TT_AC_tbp_on_site_D, ca_binding_to_cam_TT_CD_0_on_site-
_B, ca_binding_to_cam_TT_BD_0_on_site_C, ca_binding_to_cam_TT_BC_0_on_site_D, ca-
_binding_to_cam_TT_CD_rbp_on_site_B, ca.binding_to.cam.TT.BD.rbp.on.site.C, ca.binding-
_to.cam.TT.BC.rbp.on.site.D, ca.binding_to.cam.TT.CD.tbp.on.site.B, ca.binding_to-
_cam.TT.BD.tbp.on.site.C, ca.binding_to.cam.TT.BC.tbp.on.site.D, ca.binding_to.cam-
_TT.BCD_0_on_site_A, ca.binding_to.cam.TT.ACD_0_on_site_B, ca.binding_to.cam.TT-
_ABD_0_on_site_C, ca.binding_to.cam.TT.ABC_0_on_site_D, ca.binding_to.cam.TT.BCD-
_rbp.on.site.A, ca.binding_to.cam.TT.ACD_rbp.on.site.B, ca.binding_to.cam.TT.ABD-
_rbp.on.site.C, ca.binding_to.cam.TT.ABC_rbp.on.site.D, ca.binding_to.cam.TT.BCD-
_tbp.on.site.A, ca.binding_to.cam.TT.ACD_tbp.on.site.B, ca.binding_to.cam.TT.ABD-
_tbp.on.site.C, ca.binding_to.cam.TT.ABC_tbp.on.site.D and as a modifier in ca_binding-
_to.cam.RR_0_0_on_site_A, ca.binding_to.cam.RR_0_rbp.on.site.A, ca.binding_to.cam-
_RR_0_tbp.on.site.A, ca.binding_to.cam.RR_0_0_on_site_B, ca.binding_to.cam.RR_0-
_rbp.on.site.B, ca.binding_to.cam.RR_0_tbp.on.site.B, ca.binding_to.cam.RR_0_0_on-
_site_C, ca.binding_to.cam.RR_0_rbp.on.site.C, ca.binding_to.cam.RR_0_tbp.on.site-
_C, ca.binding_to.cam.RR_0_0_on_site.D, ca.binding_to.cam.RR_0_rbp.on.site.D, ca-
_binding_to.cam.RR_0_tbp.on.site.D, ca.binding_to.cam.RR_B_0_on_site_A, ca.binding-
_to.cam.RR_A_0_on_site_B, ca.binding_to.cam.RR_B_rbp.on.site.A, ca.binding_to.cam-
_RR_A_rbp.on.site.B, ca.binding_to.cam.RR_B_tbp.on.site.A, ca.binding_to.cam.RR-
_A_tbp.on.site.B, ca.binding_to.cam.RR_C_0_on_site.A, ca.binding_to.cam.RR_A_0_on-
_site_C, ca.binding_to.cam.RR_C_rbp.on.site.A, ca.binding_to.cam.RR_A_rbp.on.site-
_C, ca.binding_to.cam.RR_C_tbp.on.site.A, ca.binding_to.cam.RR_A_tbp.on.site.C, ca-
_binding_to.cam.RR_D_0_on_site_A, ca.binding_to.cam.RR_A_0_on_site.D, ca.binding-
_to.cam.RR_D_rbp.on.site.A, ca.binding_to.cam.RR_A_rbp.on.site.D, ca.binding_to-
_cam.RR_D_tbp.on.site.A, ca.binding_to.cam.RR_A_tbp.on.site.D, ca.binding_to.cam-
_RR_C_0_on_site_B, ca.binding_to.cam.RR_B_0_on_site.C, ca.binding_to.cam.RR_C_rbp-
_on.site_B, ca.binding_to.cam.RR_B_rbp.on.site.C, ca.binding_to.cam.RR_C_tbp.on-
_site_B, ca.binding_to.cam.RR_B_tbp.on.site.C, ca.binding_to.cam.RR_D_0_on_site-
_B, ca.binding_to.cam.RR_B_0_on_site.D, ca.binding_to.cam.RR_D_rbp.on.site.B, ca-
_binding_to.cam.RR_B_rbp.on.site.D, ca.binding_to.cam.RR_D_tbp.on.site.B, ca.binding-
_to.cam.RR_B_tbp.on.site.D, ca.binding_to.cam.RR_D_0_on_site.C, ca.binding_to.cam-
_RR_C_0_on_site_D, ca.binding_to.cam.RR_D_rbp.on.site.C, ca.binding_to.cam.RR_C-
_rbp.on.site.D, ca.binding_to.cam.RR_D_tbp.on.site.C, ca.binding_to.cam.RR_C_tbp-
_on.site.D, ca.binding_to.cam.RR_BC_0_on_site_A, ca.binding_to.cam.RR_AC_0_on_site-
_B, ca.binding_to.cam.RR_AB_0_on_site_C, ca.binding_to.cam.RR_BC_rbp.on.site.A, ca-
_binding_to.cam.RR_AC_rbp.on.site.B, ca.binding_to.cam.RR_AB_rbp.on.site.C, ca.binding-
_to.cam.RR_BC_tbp.on.site.A, ca.binding_to.cam.RR_AC_tbp.on.site.B, ca.binding_to-
_cam.RR_AB_tbp.on.site.C, ca.binding_to.cam.RR_BD_0_on_site_A, ca.binding_to.cam-
_RR_AD_0_on_site_B, ca.binding_to.cam.RR_AB_0_on_site_D, ca.binding_to.cam.RR_BD-
_rbp.on.site.A, ca.binding_to.cam.RR_AD_rbp.on.site.B, ca.binding_to.cam.RR_AB_rbp-
_on.site.D, ca.binding_to.cam.RR_BD_tbp.on.site.A, ca.binding_to.cam.RR_AD_tbp.on-

_site_B, ca_binding_to_cam_RR_AB_tbp_on_site_D, ca_binding_to_cam_RR_CD_0_on_site_A, ca_binding_to_cam_RR_AD_0_on_site_C, ca_binding_to_cam_RR_AC_0_on_site_D, ca_binding_to_cam_RR_CD_rbp_on_site_A, ca_binding_to_cam_RR_AD_rbp_on_site_C, ca_binding_to_cam_RR_AC_rbp_on_site_D, ca_binding_to_cam_RR_CD_tbp_on_site_A, ca_binding_to_cam_RR_AD_tbp_on_site_C, ca_binding_to_cam_RR_AC_tbp_on_site_D, ca_binding_to_cam_RR_CD_0_on_site_B, ca_binding_to_cam_RR_BD_0_on_site_C, ca_binding_to_cam_RR_BC_0_on_site_D, ca_binding_to_cam_RR_CD_rbp_on_site_B, ca_binding_to_cam_RR_BD_rbp_on_site_C, ca_binding_to_cam_RR_BC_rbp_on_site_D, ca_binding_to_cam_RR_CD_tbp_on_site_B, ca_binding_to_cam_RR_BD_tbp_on_site_C, ca_binding_to_cam_RR_BC_tbp_on_site_D, ca_binding_to_cam_RR_BCD_0_on_site_A, ca_binding_to_cam_RR_ACD_0_on_site_B, ca_binding_to_cam_RR_ABD_0_on_site_C, ca_binding_to_cam_RR_ABC_0_on_site_D, ca_binding_to_cam_RR_BCD_rbp_on_site_A, ca_binding_to_cam_RR_ACD_rbp_on_site_B, ca_binding_to_cam_RR_ABD_rbp_on_site_C, ca_binding_to_cam_RR_ABC_rbp_on_site_D, ca_binding_to_cam_RR_ACD_tbp_on_site_A, ca_binding_to_cam_RR_ABC_tbp_on_site_B, ca_binding_to_cam_RR_ABD_tbp_on_site_C, ca_binding_to_cam_RR_ABC_rbp_on_site_D, ca_binding_to_cam_RT_0_0_on_site_A, ca_binding_to_cam_RT_0_rbp_on_site_A, ca_binding_to_cam_RT_0_tbp_on_site_A, ca_binding_to_cam_RT_0_0_on_site_B, ca_binding_to_cam_RT_0_rbp_on_site_B, ca_binding_to_cam_RT_0_0_on_site_C, ca_binding_to_cam_RT_0_rbp_on_site_C, ca_binding_to_cam_RT_0_tbp_on_site_C, ca_binding_to_cam_RT_0_0_on_site_D, ca_binding_to_cam_RT_0_rbp_on_site_D, ca_binding_to_cam_RT_0_tbp_on_site_D, ca_binding_to_cam_RT_B_0_on_site_A, ca_binding_to_cam_RT_A_0_on_site_B, ca_binding_to_cam_RT_B_rbp_on_site_A, ca_binding_to_cam_RT_A_rbp_on_site_B, ca_binding_to_cam_RT_B_tbp_on_site_A, ca_binding_to_cam_RT_A_0_on_site_C, ca_binding_to_cam_RT_C_0_on_site_A, ca_binding_to_cam_RT_A_rbp_on_site_C, ca_binding_to_cam_RT_C_tbp_on_site_A, ca_binding_to_cam_RT_D_0_on_site_A, ca_binding_to_cam_RT_A_0_on_site_D, ca_binding_to_cam_RT_D_rbp_on_site_A, ca_binding_to_cam_RT_A_rbp_on_site_D, ca_binding_to_cam_RT_D_tbp_on_site_A, ca_binding_to_cam_RT_A_tbp_on_site_D, ca_binding_to_cam_RT_D_0_on_site_B, ca_binding_to_cam_RT_A_rbp_on_site_B, ca_binding_to_cam_RT_C_0_on_site_B, ca_binding_to_cam_RT_B_0_on_site_C, ca_binding_to_cam_RT_C_rbp_on_site_B, ca_binding_to_cam_RT_B_rbp_on_site_C, ca_binding_to_cam_RT_D_0_on_site_B, ca_binding_to_cam_RT_B_tbp_on_site_C, ca_binding_to_cam_RT_D_0_on_site_B, ca_binding_to_cam_RT_B_0_on_site_D, ca_binding_to_cam_RT_D_rbp_on_site_B, ca_binding_to_cam_RT_B_rbp_on_site_D, ca_binding_to_cam_RT_D_tbp_on_site_B, ca_binding_to_cam_RT_B_tbp_on_site_D, ca_binding_to_cam_RT_D_0_on_site_C, ca_binding_to_cam_RT_C_0_on_site_D, ca_binding_to_cam_RT_D_rbp_on_site_C, ca_binding_to_cam_RT_C_rbp_on_site_D, ca_binding_to_cam_RT_D_tbp_on_site_C, ca_binding_to_cam_RT_C_tbp_on_site_D, ca_binding_to_cam_RT_BC_0_on_site_A, ca_binding_to_cam_RT_AC_0_on_site_B, ca_binding_to_cam_RT_AB_0_on_site_C, ca_binding_to_cam_RT_BC_rbp_on_site_A, ca_binding_to_cam_RT_AC_rbp_on_site_B, ca_binding_to_cam_RT_AB_rbp_on_site_C, ca_binding_to_cam_RT_BD_0_on_site_A, ca_binding_to_cam_RT_AD_0_on_site_B, ca_binding_to_cam_RT_AB_0_on_site_D, ca_binding_to_cam_RT_BD-

_rbp_on_site_A, ca_binding_to_cam_RT_AD_rbp_on_site_B, ca_binding_to_cam_RT_AB_rbp_-
_on_site_D, ca_binding_to_cam_RT_BD_tbp_on_site_A, ca_binding_to_cam_RT_AD_tbp_on_-
_site_B, ca_binding_to_cam_RT_AB_tbp_on_site_D, ca_binding_to_cam_RT_CD_0_on_site_-
_A, ca_binding_to_cam_RT_AD_0_on_site_C, ca_binding_to_cam_RT_AC_0_on_site_D, ca-
_binding_to_cam_RT_CD_rbp_on_site_A, ca.binding_to.cam.RT.AD.rbp.on.site.C, ca.binding-
_to.cam.RT.AC.rbp.on.site.D, ca.binding_to.cam.RT.CD.tbp.on.site.A, ca.binding_to-
_cam.RT.AD.tbp.on.site.C, ca.binding_to.cam.RT.AC.tbp.on.site.D, ca.binding_to.cam-
_RT_CD_0_on_site_B, ca.binding_to.cam.RT.BD_0_on_site.C, ca.binding_to.cam.RT.BC-
_0_on_site_D, ca.binding_to.cam.RT.CD.rbp.on.site.B, ca.binding_to.cam.RT.BD.rbp-
_on_site_C, ca.binding_to.cam.RT.BC.rbp.on.site.D, ca.binding_to.cam.RT.CD.tbp.on-
_site_B, ca.binding_to.cam.RT.BD.tbp.on.site.C, ca.binding_to.cam.RT.BC.tbp.on.site-
_D, ca.binding_to.cam.RT.BCD_0_on_site_A, ca.binding_to.cam.RT.ACD_0_on_site_B, ca-
_binding_to.cam.RT.ABD_0_on_site_C, ca.binding_to.cam.RT.ABC_0_on_site_D, ca.binding-
_to.cam.RT.BCD.rbp.on.site.A, ca.binding_to.cam.RT.ACD.rbp.on.site.B, ca.binding-
_to.cam.RT.ABD.rbp.on.site.C, ca.binding_to.cam.RT.ABC.rbp.on.site.D, ca.binding-
_to.cam.TR_0_0_on_site_A, ca.binding_to.cam.TR_0_rbp.on.site.A, ca.binding_to.cam-
_TR_0_tbp.on.site.A, ca.binding_to.cam.TR_0_0_on_site_B, ca.binding_to.cam.TR_0_-
_rbp.on.site.B, ca.binding_to.cam.TR_0_tbp.on.site.B, ca.binding_to.cam.TR_0_0_on-
_site_C, ca.binding_to.cam.TR_0_rbp.on.site.C, ca.binding_to.cam.TR_0_tbp.on.site-
_C, ca.binding_to.cam.TR_0_0_on_site.D, ca.binding_to.cam.TR_0_rbp.on.site.D, ca-
_binding_to.cam.TR_0_tbp.on.site.D, ca.binding_to.cam.TR_B_0_on_site_A, ca.binding_to.cam-
_TR_A_0_on_site_B, ca.binding_to.cam.TR_B.rbp.on.site.A, ca.binding_to.cam-
_TR_A_rbp.on.site.B, ca.binding_to.cam.TR_B.tbp.on.site.A, ca.binding_to.cam.TR_-
_A_tbp.on.site.B, ca.binding_to.cam.TR_C_0_on_site_A, ca.binding_to.cam.TR_A_0_on-
_site_C, ca.binding_to.cam.TR_C.rbp.on.site.A, ca.binding_to.cam.TR_A.rbp.on.site-
_C, ca.binding_to.cam.TR_C.tbp.on.site.A, ca.binding_to.cam.TR_A.tbp.on.site.C, ca-
_binding_to.cam.TR_D_0_on_site_A, ca.binding_to.cam.TR_A_0_on_site_D, ca.binding-
_to.cam.TR_D.rbp.on.site.A, ca.binding_to.cam.TR_A.rbp.on.site.D, ca.binding_to-
_cam.TR_D.tbp.on.site.A, ca.binding_to.cam.TR_A.tbp.on.site.D, ca.binding_to.cam-
_TR_C_0_on_site_B, ca.binding_to.cam.TR_B_0_on_site_C, ca.binding_to.cam.TR_C.rbp-
_on_site_B, ca.binding_to.cam.TR_B.rbp.on.site.C, ca.binding_to.cam.TR_C.tbp.on-
_site_B, ca.binding_to.cam.TR_B.tbp.on.site.C, ca.binding_to.cam.TR_D_0_on_site-
_B, ca.binding_to.cam.TR_B_0_on_site_D, ca.binding_to.cam.TR_D.rbp.on.site.B, ca-
_binding_to.cam.TR_B.rbp.on.site.D, ca.binding_to.cam.TR_D.tbp.on.site.B, ca.binding-
_to.cam.TR_B.tbp.on.site.D, ca.binding_to.cam.TR_D_0_on_site_C, ca.binding_to.cam-
_TR_C_0_on_site_D, ca.binding_to.cam.TR_D.rbp.on.site.C, ca.binding_to.cam.TR_C-
_rbp.on.site.D, ca.binding_to.cam.TR_D.tbp.on.site.C, ca.binding_to.cam.TR_C.tbp-
_on_site_D, ca.binding_to.cam.TR_BC_0_on_site_A, ca.binding_to.cam.TR_AC_0_on_site-
_B, ca.binding_to.cam.TR_AB_0_on_site_C, ca.binding_to.cam.TR_BC.rbp.on.site.A, ca-
_binding_to.cam.TR_AC.rbp.on.site.B, ca.binding_to.cam.TR_AB.rbp.on.site.C, ca.binding-
_to.cam.TR_BC.tbp.on.site.A, ca.binding_to.cam.TR_AC.tbp.on.site.B, ca.binding_to-

_cam_TR_AB_tbp_on_site_C, ca_binding_to_cam_TR_BD_0_on_site_A, ca_binding_to_cam_-TR_AD_0_on_site_B, ca_binding_to_cam_TR_AB_0_on_site_D, ca_binding_to_cam_TR_BD_-rbp_on_site_A, ca_binding_to_cam_TR_AB_rbp_on_site_B, ca_binding_to_cam_TR_AB_rbp_-on_site_D, ca_binding_to_cam_TR_BD_tbp_on_site_A, ca_binding_to_cam_TR_AD_tbp_on_-site_B, ca_binding_to_cam_TR_AB_tbp_on_site_D, ca_binding_to_cam_TR_CD_0_on_site_-A, ca_binding_to_cam_TR_AD_0_on_site_C, ca_binding_to_cam_TR_AC_0_on_site_D, ca_-binding_to_cam_TR_CD_rbp_on_site_A, ca_binding_to_cam_TR_AD_rbp_on_site_C, ca_binding_-to_cam_TR_AC_rbp_on_site_D, ca_binding_to_cam_TR_CD_tbp_on_site_A, ca_binding_to_-cam_TR_AD_tbp_on_site_C, ca_binding_to_cam_TR_AC_tbp_on_site_D, ca_binding_to_cam_-TR_CD_0_on_site_B, ca_binding_to_cam_TR_BD_0_on_site_C, ca_binding_to_cam_TR_BC_-0_on_site_D, ca_binding_to_cam_TR_CD_rbp_on_site_B, ca_binding_to_cam_TR_BD_rbp_-on_site_C, ca_binding_to_cam_TR_BC_rbp_on_site_D, ca_binding_to_cam_TR_CD_tbp_on_-site_B, ca_binding_to_cam_TR_BD_tbp_on_site_C, ca_binding_to_cam_TR_BC_tbp_on_site_-D, ca_binding_to_cam_TR_BCD_0_on_site_A, ca_binding_to_cam_TR_ACD_0_on_site_B, ca_-binding_to_cam_TR_ABD_0_on_site_C, ca_binding_to_cam_TR_ABC_0_on_site_D, ca_binding_-to_cam_TR_BCD_rbp_on_site_A, ca_binding_to_cam_TR_ACD_rbp_on_site_B, ca_binding_-to_cam_TR_ABD_rbp_on_site_C, ca_binding_to_cam_TR_ABC_rbp_on_site_D, ca_binding_-to_cam_TR_BCD_tbp_on_site_A, ca_binding_to_cam_TR_ACD_tbp_on_site_B, ca_binding_-to_cam_TR_ABD_tbp_on_site_C, ca_binding_to_cam_TR_ABC_tbp_on_site_D, ca_binding_-to_cam_TT_0_0_on_site_A, ca_binding_to_cam_TT_0_rbp_on_site_A, ca_binding_to_cam_-TT_0_tbp_on_site_A, ca_binding_to_cam_TT_0_0_on_site_B, ca_binding_to_cam_TT_0_-rbp_on_site_B, ca_binding_to_cam_TT_0_tbp_on_site_B, ca_binding_to_cam_TT_0_0_on_-site_C, ca_binding_to_cam_TT_0_rbp_on_site_C, ca_binding_to_cam_TT_0_tbp_on_site_-C, ca_binding_to_cam_TT_0_0_on_site_D, ca_binding_to_cam_TT_0_rbp_on_site_D, ca_-binding_to_cam_TT_0_tbp_on_site_D, ca_binding_to_cam_TT_B_0_on_site_A, ca_binding_-to_cam_TT_A_0_on_site_B, ca_binding_to_cam_TT_B_rbp_on_site_A, ca_binding_to_cam_-TT_A_rbp_on_site_B, ca_binding_to_cam_TT_B_tbp_on_site_A, ca_binding_to_cam_TT_-A_tbp_on_site_B, ca_binding_to_cam_TT_C_0_on_site_A, ca_binding_to_cam_TT_A_0_on_-site_C, ca_binding_to_cam_TT_C_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on_site_-C, ca_binding_to_cam_TT_C_tbp_on_site_A, ca_binding_to_cam_TT_A_tbp_on_site_C, ca_-binding_to_cam_TT_D_0_on_site_A, ca_binding_to_cam_TT_A_0_on_site_D, ca_binding_-to_cam_TT_D_rbp_on_site_A, ca_binding_to_cam_TT_A_rbp_on_site_D, ca_binding_to_-cam_TT_D_tbp_on_site_A, ca_binding_to_cam_TT_A_tbp_on_site_D, ca_binding_to_cam_-TT_C_0_on_site_B, ca_binding_to_cam_TT_B_0_on_site_C, ca_binding_to_cam_TT_C_rbp_-on_site_B, ca_binding_to_cam_TT_B_rbp_on_site_C, ca_binding_to_cam_TT_C_tbp_on_-site_B, ca_binding_to_cam_TT_B_tbp_on_site_C, ca_binding_to_cam_TT_D_0_on_site_-B, ca_binding_to_cam_TT_B_0_on_site_D, ca_binding_to_cam_TT_D_rbp_on_site_B, ca_-binding_to_cam_TT_B_rbp_on_site_D, ca_binding_to_cam_TT_D_tbp_on_site_B, ca_binding_-to_cam_TT_B_tbp_on_site_D, ca_binding_to_cam_TT_D_0_on_site_C, ca_binding_to_cam_-TT_C_0_on_site_D, ca_binding_to_cam_TT_D_rbp_on_site_C, ca_binding_to_cam_TT_C_-rbp_on_site_D, ca_binding_to_cam_TT_D_tbp_on_site_C, ca_binding_to_cam_TT_C_tbp_-on_site_D, ca_binding_to_cam_TT_BC_0_on_site_A, ca_binding_to_cam_TT_AC_0_on_site_-B, ca_binding_to_cam_TT_AB_0_on_site_C, ca_binding_to_cam_TT_BC_rbp_on_site_A, ca-

_binding_to_cam_TT_AC_rbp_on_site_B, ca_binding_to_cam_TT_AB_rbp_on_site_C, ca_binding_to.cam_TT_BC_tbp_on_site_A, ca_binding_to.cam_TT_AC_tbp_on_site_B, ca_binding_to.cam_TT_AB_tbp_on_site_C, ca_binding_to.cam_TT_BD_0_on_site_A, ca_binding_to.cam_TT_AD_0_on_site_B, ca_binding_to.cam_TT_AB_0_on_site_D, ca_binding_to.cam_TT_BD_rbp_on_site_A, ca_binding_to.cam_TT_AB_rbp_on_site_B, ca_binding_to.cam_TT_AB_tbp_on_site_D, ca_binding_to.cam_TT_CD_0_on_site_A, ca_binding_to.cam_TT_AC_0_on_site_D, ca_binding_to.cam_TT_CD_rbp_on_site_A, ca_binding_to.cam_TT_CD_tbp_on_site_A, ca_binding_to.cam_TT_AC_rbp_on_site_D, ca_binding_to.cam_TT_CD_tbp_on_site_C, ca_binding_to.cam_TT_AC_tbp_on_site_D, ca_binding_to.cam_TT_CD_0_on_site_B, ca_binding_to.cam_TT_BD_0_on_site_C, ca_binding_to.cam_TT_BD_rbp_on_site_D, ca_binding_to.cam_TT_BD_tbp_on_site_B, ca_binding_to.cam_TT_BD_rbp_on_site_C, ca_binding_to.cam_TT_BD_tbp_on_site_D, ca_binding_to.cam_TT_BD_tbp_on_site_B, ca_binding_to.cam_TT_BCD_0_on_site_A, ca_binding_to.cam_TT_ACD_0_on_site_B, ca_binding_to.cam_TT_ABD_0_on_site_C, ca_binding_to.cam_TT_ABC_0_on_site_D, ca_binding_to.cam_TT_BCD_rbp_on_site_A, ca_binding_to.cam_TT_ACD_rbp_on_site_B, ca_binding_to.cam_TT_ABD_rbp_on_site_C, ca_binding_to.cam_TT_ABC_rbp_on_site_D, ca_binding_to.cam_TT_BCD_tbp_on_site_A, ca_binding_to.cam_TT_ACD_tbp_on_site_B, ca_binding_to.cam_TT_ABD_tbp_on_site_C, ca_binding_to.cam_TT_ABC_tbp_on_site_D), which do not influence its rate of change because this constant species is on the boundary of the reaction system:

$$\frac{d}{dt} ca = 0 \quad (1398)$$

8.194 Species rbp

Name rbp

Initial concentration $1.46 \cdot 10^{-4}$ mol·l⁻¹

This species takes part in 128 reactions (as a reactant in rbp_binding_to.cam_RR_0_0, rbp_binding_to.cam_RR_A_0, rbp_binding_to.cam_RR_B_0, rbp_binding_to.cam_RR_C_0, rbp_binding_to.cam_RR_D_0, rbp_binding_to.cam_RR_AB_0, rbp_binding_to.cam_RR_AC_0, rbp_binding_to.cam_RR_AD_0, rbp_binding_to.cam_RR_BC_0, rbp_binding_to.cam_RR_BD_0, rbp_binding_to.cam_RR_CD_0, rbp_binding_to.cam_RR_ABC_0, rbp_binding_to.cam_RR_ABD_0, rbp_binding_to.cam_RR_ACD_0, rbp_binding_to.cam_RR_BCD_0, rbp_binding_to.cam_RR_ABCD_0, rbp_binding_to.cam_RT_0_0, rbp_binding_to.cam_RT_A_0, rbp_binding_to.cam_RT_B_0, rbp_binding_to.cam_RT_C_0, rbp_binding_to.cam_RT_D_0, rbp_binding_to.cam_RT_AB_0, rbp_binding_to.cam_RT_AC_0, rbp_binding_to.cam_RT_AD_0, rbp_binding_to.cam_RT_BC_0, rbp_binding_to.cam_RT_BD_0, rbp_binding_to.cam_RT_CD_0, rbp_binding_to.cam_RT_ABC_0, rbp_binding_to.cam_RT_ABD_0, rbp_binding_to.cam_RT_ACD_0, rbp_binding_to.cam_RT_BCD_0, rbp_binding_to.cam_RT_ABCD_0, rbp_binding_to.cam_TR_0_0, rbp_binding_to.cam_TR_A_0, rbp_binding_to.cam_TR_B_0, rbp_binding_to.cam_TR_C_0).

_C_0, rbp_binding_to_cam_TR_D_0, rbp_binding_to_cam_TR_AB_0, rbp_binding_to_cam_TR_AC_0, rbp_binding_to_cam_TR_AD_0, rbp_binding_to_cam_TR_BC_0, rbp_binding_to_cam_TR_BD_0, rbp_binding_to_cam_TR_CD_0, rbp_binding_to_cam_TR_ABC_0, rbp_binding_to_cam_TR_ABD_0, rbp_binding_to_cam_TR_ACD_0, rbp_binding_to_cam_TR_BCD_0, rbp_binding_to_cam_TR_ABCD_0, rbp_binding_to_cam_TT_O_0, rbp_binding_to_cam_TT_A_0, rbp_binding_to_cam_TT_B_0, rbp_binding_to_cam_TT_C_0, rbp_binding_to_cam_TT_D_0, rbp_binding_to_cam_TT_AB_0, rbp_binding_to_cam_TT_AC_0, rbp_binding_to_cam_TT_AD_0, rbp_binding_to_cam_TT_BC_0, rbp_binding_to_cam_TT_BD_0, rbp_binding_to_cam_TT_CD_0, rbp_binding_to_cam_TT_ABC_0, rbp_binding_to_cam_TT_ABD_0, rbp_binding_to_cam_TT_ACD_0, rbp_binding_to_cam_TT_BCD_0, rbp_binding_to_cam_TT_ABCD_0 and as a modifier in rbp_binding_to_cam_RR_O_0, rbp_binding_to_cam_RR_A_0, rbp_binding_to_cam_RR_B_0, rbp_binding_to_cam_RR_C_0, rbp_binding_to_cam_RR_D_0, rbp_binding_to_cam_RR_AB_0, rbp_binding_to_cam_RR_AC_0, rbp_binding_to_cam_RR_AD_0, rbp_binding_to_cam_RR_BC_0, rbp_binding_to_cam_RR_BD_0, rbp_binding_to_cam_RR_CD_0, rbp_binding_to_cam_RR_ABC_0, rbp_binding_to_cam_RR_ABD_0, rbp_binding_to_cam_RR_ACD_0, rbp_binding_to_cam_RR_BCD_0, rbp_binding_to_cam_RR_ABCD_0, rbp_binding_to_cam_RT_O_0, rbp_binding_to_cam_RT_A_0, rbp_binding_to_cam_RT_B_0, rbp_binding_to_cam_RT_C_0, rbp_binding_to_cam_RT_D_0, rbp_binding_to_cam_RT_AB_0, rbp_binding_to_cam_RT_AC_0, rbp_binding_to_cam_RT_AD_0, rbp_binding_to_cam_RT_BD_0, rbp_binding_to_cam_RT_CD_0, rbp_binding_to_cam_RT_ABC_0, rbp_binding_to_cam_RT_ABD_0, rbp_binding_to_cam_RT_ACD_0, rbp_binding_to_cam_RT_BCD_0, rbp_binding_to_cam_RT_ABCD_0, rbp_binding_to_cam_TR_O_0, rbp_binding_to_cam_TR_A_0, rbp_binding_to_cam_TR_B_0, rbp_binding_to_cam_TR_C_0, rbp_binding_to_cam_TR_D_0, rbp_binding_to_cam_TR_AB_0, rbp_binding_to_cam_TR_AC_0, rbp_binding_to_cam_TR_AD_0, rbp_binding_to_cam_TR_BC_0, rbp_binding_to_cam_TR_BD_0, rbp_binding_to_cam_TR_CD_0, rbp_binding_to_cam_TR_ABC_0, rbp_binding_to_cam_TR_ABD_0, rbp_binding_to_cam_TR_ACD_0, rbp_binding_to_cam_TR_BCD_0, rbp_binding_to_cam_TR_ABCD_0, rbp_binding_to_cam_TT_O_0, rbp_binding_to_cam_TT_A_0, rbp_binding_to_cam_TT_B_0, rbp_binding_to_cam_TT_C_0, rbp_binding_to_cam_TT_D_0, rbp_binding_to_cam_TT_AB_0, rbp_binding_to_cam_TT_AC_0, rbp_binding_to_cam_TT_AD_0, rbp_binding_to_cam_TT_BD_0, rbp_binding_to_cam_TT_CD_0, rbp_binding_to_cam_TT_ABC_0, rbp_binding_to_cam_TT_ABD_0, rbp_binding_to_cam_TT_ACD_0, rbp_binding_to_cam_TT_BCD_0, rbp_binding_to_cam_TT_ABCD_0).

$$\begin{aligned}
\frac{d}{dt} \text{rbp} = & -v_1 - v_4 - v_9 - v_{14} - v_{19} - v_{25} - v_{33} - v_{41} - v_{49} - v_{57} - v_{65} - v_{74} \\
& - v_{85} - v_{96} - v_{107} - v_{119} - v_{129} - v_{132} - v_{137} - v_{142} - v_{147} - v_{153} - v_{161} \\
& - v_{169} - v_{177} - v_{185} - v_{193} - v_{202} - v_{213} - v_{224} - v_{235} - v_{247} - v_{257} - v_{260} \\
& - v_{265} - v_{270} - v_{275} - v_{281} - v_{289} - v_{297} - v_{305} - v_{313} - v_{321} - v_{330} \\
& - v_{341} - v_{352} - v_{363} - v_{375} - v_{385} - v_{388} - v_{393} - v_{398} - v_{403} - v_{409} \\
& - v_{417} - v_{425} - v_{433} - v_{441} - v_{449} - v_{458} - v_{469} - v_{480} - v_{491} - v_{503}
\end{aligned} \tag{1399}$$

8.195 Species tbp

Name tbp

Initial concentration 0 mol · l⁻¹

`_cam_TR_ACD_0, tbp_binding_to_cam_TR_BCD_0, tbp_binding_to_cam_TR_ABCD_0, tbp_binding_to_cam_TT_O_0, tbp_binding_to_cam_TT_A_0, tbp_binding_to_cam_TT_B_0, tbp_binding_to_cam_TT_C_0, tbp_binding_to_cam_TT_D_0, tbp_binding_to_cam_TT_AB_0, tbp_binding_to_cam_TT_AC_0, tbp_binding_to_cam_TT_AD_0, tbp_binding_to_cam_TT_BC_0, tbp_binding_to_cam_TT_BD_0, tbp_binding_to_cam_TT_CD_0, tbp_binding_to_cam_TT_ABC_0, tbp_binding_to_cam_TT_ABD_0, tbp_binding_to_cam_TT_ACD_0, tbp_binding_to_cam_TT_BCD_0, tbp_binding_to_cam_TT_ABCD_0).`

$$\begin{aligned} \frac{d}{dt} \text{tbp} = & -v_2 - v_6 - v_{11} - v_{16} - v_{21} - v_{28} - v_{36} - v_{44} - v_{52} - v_{60} - v_{68} - v_{78} \\ & - v_{89} - v_{100} - v_{111} - v_{124} - v_{130} - v_{134} - v_{139} - v_{144} - v_{149} - v_{156} - v_{164} \\ & - v_{172} - v_{180} - v_{188} - v_{196} - v_{206} - v_{217} - v_{228} - v_{239} - v_{252} - v_{258} - v_{262} \\ & - v_{267} - v_{272} - v_{277} - v_{284} - v_{292} - v_{300} - v_{308} - v_{316} - v_{324} - v_{334} \\ & - v_{345} - v_{356} - v_{367} - v_{380} - v_{386} - v_{390} - v_{395} - v_{400} - v_{405} - v_{412} \\ & - v_{420} - v_{428} - v_{436} - v_{444} - v_{452} - v_{462} - v_{473} - v_{484} - v_{495} - v_{508} \end{aligned} \quad (1400)$$

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