







maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

	tC	FERM	RESP	ACT	EAA	ENT	RNAp	DNAp	r
С	1	-1	-1	0	0	0	Ō	0	0
ı	0	0.4	0.2	-0.2	0	0	0	0	0
Р	0	0	0	1	-1	-0.45	0	0	0
AA	0	0	0	0	1	-0.45	0	0	-0.9
NT	0	0	0	0	0	1	-1	–1	0
ATP	0	0.4	8.0	-0.8	0	-0.1	0	0	-0.1
RNA	0	0	0	0	0	0	1	0	0
DNA	0	0	0	0	0	0	0	1	0
р	0	0	0	0	0	0	0	0	1

	tC	FERM	RESP	ACT	EAA	ENT	RNAp	DNAp	r
x_C	0.1	0	0	0	0	0	0	0	0
x_W	0	10	20	0	0	0	0	0	0
С	13	5	10	0	0	0	0	0	0
I	0	7	14	3	0	0	0	0	0
Р	0	0	0	6	2	2	0	0	0
AA	0	0	0	0	8	3	0	0	3
NT	0	0	0	0	0	6	2	2	0
ATP	0	6	12	2	0	2	0	0	2
RNA	0	0	0	0	0	0	0	0	0
DNA	0	0	0	0	0	0	0	0	0
р	0	0	0	0	0	0	0	0	0

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tC	FERM	RESP	ACT	EAA	ENT	RNAp	DNAp	r
0	0	0	0	0	0	Ō	Ō	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	40
0	0	0	0	0	0	4	4	0
0	0	0	0	0	0	0	0	0
	tC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tC FERM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tC FERM RESP 0	tC FERM RESP ACT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tC FERM RESP ACT EAA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tC FERM RESP ACT EAA ENT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tC FERM RESP ACT EAA ENT RNAp 0 0 0 0 0 0 0 0 0	tC FERM RESP ACT EAA ENT RNAp DNAp 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

kcat

	tC	FERM	KESP	ACT	EAA	ENI	KNAP	UNAP	r
kcatf	29	400	100	115	7	45	6	13	4
kcatb	3	40	10	12	1	4	0	0	0

Keq

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	
[1,]	1256.66666666667	840	168	9.58333333333333	28	5.625	Înf	Înf	Înf	

phi input

[1,]	[,1] 0.065	[,2] 0.024	[,3] 0.024	[,4] 0.024	[,5] 0.248	[,6] 0.032	[,7] 0.12	[,8] 0.003	[,9] 0.46

average saturation input

minimal phi constraint

[1,]

minimal f constraint

	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]
[1,]	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō	Ō