







maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
С	0.5	-0.2	-0.1	0	-0.8	-0.167	0	0	0
I	0	0.1	0.1	0	-0.2	0	0	0	0
AA	0	0	0	0	1	-0.167	0	0	-0.2
NT	0	0	0	-1	0	0.334	-1	-1	0
ADP	0.5	-0.8	-0.9	1	0	0.666	0	0	0.8
ATP	-0.5	0.8	0.9	0	0	-0.666	0	0	-0.8
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	0.2

tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
0.1	0	0	0	0	0	0	0	0
0	10	30	0	0	0	0	0	0
19	7	21	0	7	7	0	0	0
0	61	183	0	21	0	0	0	0
0	0	0	0	6	2	0	0	2
0	0	0	2	0	4	2	2	0
1	1	3	1	0	1	0	0	0
2	6	18	0	0	2	0	0	2
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
	0.1	0.1 0 0 10 19 7	0.1 0 0 0 10 30 19 7 21 0 61 183 0 0 0 0 0 0 1 1 3	0.1 0 0 0 0 10 30 0 19 7 21 0 0 61 183 0 0 0 0 0 0 0 0 2 1 1 3 1	0.1 0 0 0 0 0 10 30 0 0 19 7 21 0 7 0 61 183 0 21 0 0 0 0 6 0 0 0 2 0 1 1 3 1 0	0.1 0 0 0 0 0 0 10 30 0 0 0 19 7 21 0 7 7 0 61 183 0 21 0 0 0 0 0 6 2 0 0 0 2 0 4 1 1 3 1 0 1	0.1 0 0 0 0 0 0 0 10 30 0 0 0 0 19 7 21 0 7 7 0 0 61 183 0 21 0 0 0 0 0 0 6 2 0 0 0 0 2 0 4 2 1 1 3 1 0 1 0	0.1 0 0 0 0 0 0 0 0 10 30 0 0 0 0 0 19 7 21 0 7 7 0 0 0 61 183 0 21 0 0 0 0 0 0 0 6 2 0 0 0 0 0 2 0 4 2 2 1 1 3 1 0 1 0 0

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	tC	GLY	RESP	ADPS	EAA	ENI	RNAp	DNAp	r
x_C	0	0	0	0	0	0	Ō	Ō	0
xW	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0
I	0	0	0	0	0	0	0	0	0
AA	0	0	0	0	0	0	0	0	0
NT	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	0	0	0	0
ATP	0	0	0	0	0	0	0	0	0
RNA	0	0	0	0	0	0	0	0	40
DNA	0	0	0	0	0	0	4	4	0
р	0	0	0	0	0	0	0	0	0

kcat

	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
kcatf	77	8920	446	26	10	149	6	13	19
kcatb	8	892	45	3	1	15	0	0	0

Keq

[1,]	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]
	914.375	5228.57142857143	518.209523809524	4.333333333333333	0.408163265306122	1.41904761904762	Inf	Inf	Inf

phi input

				[,4]						
[1,]	0.065	0.035	0.035	0.003	0.248	0.032	0.119	0.003	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