







maintenance_fun constant

keep_ribosome_kcat FALSE keep_transport_kcat FALSE

	tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
С	1	-0.4	-0.2	0	0	0	0	0	0
I	0	0.2	0.1	0	-1	-0.167	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	-0.6	-0.8	1	0	0.666	0	0	8.0
ATP	0	0.6	0.8	0	0	-0.666	0	0	-0.8
rRNA	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

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x_C 0.1 0 <th></th> <th>tC</th> <th>FERM</th> <th>RESP</th> <th>ADPS</th> <th>EAA</th> <th>ENT</th> <th>RNAp</th> <th>DNAp</th> <th>r</th>		tC	FERM	RESP	ADPS	EAA	ENT	RNAp	DNAp	r
C 14 0.6 3 0 0 0 0 0 0 I 0 1.6 8 0 2 2 0 0 0 AA 0 0 0 0 8 2 0 0 2 NT 0 0 0 2 0 6 2 2 0 ADP 0 0.2 1 1 0 1 0 0 0 ATP 0 1.6 8 0 0 2 0 0 0 rRNA 0 0 0 0 0 0 0 0 0	x_C	0.1	0	0	0	0	0	0	0	0
I 0 1.6 8 0 2 2 0 0 0 AA 0 0 0 0 8 2 0 0 2 NT 0 0 0 2 0 6 2 2 0 ADP 0 0.2 1 1 0 1 0 0 0 ATP 0 1.6 8 0 0 2 0 0 2 rRNA 0 0 0 0 0 0 0 0	x_W	0	0	0	0	0	0	0	0	0
AA 0 0 0 0 8 2 0 0 2 NT 0 0 0 2 0 6 2 2 0 ADP 0 0.2 1 1 0 1 0 0 0 ATP 0 1.6 8 0 0 2 0 0 2 rRNA 0 0 0 0 0 0 0 0 0	С	14	0.6	3	0	0	0	0	0	0
NT 0 0 0 2 0 6 2 2 0 ADP 0 0.2 1 1 0 1 0 0 0 ATP 0 1.6 8 0 0 2 0 0 2 rRNA 0 0 0 0 0 0 0 0	I	0	1.6	8	0	2	2	0	0	0
ADP 0 0.2 1 1 0 1 0 0 0 ATP 0 1.6 8 0 0 2 0 0 2 rRNA 0 0 0 0 0 0 0 0 0	AA	0	0	0	0	8	2	0	0	2
ATP 0 1.6 8 0 0 2 0 0 2 rRNA 0 0 0 0 0 0 0 0 0		0	0	0	2	0	6	2	2	0
rRNA 0 0 0 0 0 0 0 0 0	ADP	0	0.2	1	1	0	1	0	0	0
		0	1.6	8	0	0	2	0	0	2
DNA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rRNA	0	0	0	0	0	0	0	0	0
p 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	GLY	RESP	ADPS	EAA	ENI	RNAp	DNAp	r
x_C	0	0	0	0	0	0	Ō	Ō	0
x_W	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
rRNA	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	ENI	RNAp	DNAp	r
kcatf	56	177.8	118.533333333333	23	7	109	6	11	16
kcatb	6	18	12	2	1	11	0	0	0

Keq

	F 41	10.1	[2]	F 41	r e1	[.6]	r 7 1	r 01	r 01	
	[,1]	[,∠]	[,3]	[, 4]	[,5]	[,6]	[,/]	[,8]	[,9]	
[1,]	1306.6666666667	210.725925925926	210.725925925926	5.75	28	7.431818181818	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