

No	equation	τ	description	reference	mod
1	hk = IL1R1	0	IL-1 β signaling	-	
2	hk = IL1RAcP	0	IL-1 β signaling	-	
3	hk = TNFR1	0	TNF α signaling	-	
4	hk = TRADD	0	TNF α signaling	-	
5	hk = TRAF2	0	TNF α signaling	-	
6	hk = gp80	0	IL-6 signaling	-	
7	hk = gp130	0	IL-6 signaling	-	
8	IL1b_medium + IL1R1 + IL1RAcP = IL1bRC	1	IL-1 β signaling	[1]	
9	MyD88 + !MyD88s + IL1bRC = IRAK4	1	IL-1 β signaling	[1]	
10	TNFa_medium + RIP1 + TNFR1 + TRADD + TRAF2 = TNFaRC1	1	TNF α signaling	[1]	
11	TNFaRC1 = TAK1	1	TNF α signaling	[1]	
12	IL6_medium + gp80 + gp130 = IL6RC	1	IL-6 signaling	[2]	
13	IL6RC + Jak1 + !dum_Socs3_inh = Stat3	1	IL-6 signaling	[2, 3]	
14	IFNg_medium = IFNGR	1	IFN γ signaling	[2, 3]	
15	IFNGR + Jak1 + !dum_Socs1_inh = Stat1	1	IFN γ signaling	[4]	
16	IFNGR + Jak2 + !dum_Socs1_inh = Stat1	1	IFN γ signaling	[4]	
17	IFNa_medium = IFNAR	1	IFN α signaling	[4]	
18	NFkB + IRF3 + p300 + CBP = IFNgmRNA	5	TLR4 signaling	[5]	
19	NFkB + IRF3 + p300 + CBP = IFNamRNA	5	TLR4 signaling	[6]	
20	NFkB + MSK1 = IL1rnmRNA	5	TLR4 signaling	[7, 8]	#1
21	NFkB = OSMmRNA	5	TLR4 signaling	[7, 9]	
22	NFkB = Ccl2/3/4/5mRNA	5	TLR4 signaling	[10]	#2
23	NFkB = Cxcl1/2/3/5mRNA	5	TLR4 signaling	[10]	#3
24	Stat6 = Ccl2mRNA	5	IL-4/13 signaling	[10]	#4
25	Stat3 + Src = Socs3mRNA	5	IFN/IL-10 signaling	[7, 11, 12]	#5
26	IFNgmRNA = IFNg_syn	7	TLR4 signaling	[5]	
27	IFNamRNA = IFNa_syn	7	TLR4 signaling	[6]	
28	IL1rnmRNA = IL1rn	7	TLR4 signaling	[7, 8]	#6
29	OSMmRNA = OSM	7	TLR4 signaling	[7, 9]	
30	Ccl2/3/4/5mRNA = Ccl2/3/4/5	7	TLR4 signaling	[10]	#7
31	Cxcl1/2/3/5mRNA = Cxcl1/2/3/5	7	TLR4 signaling	[10]	#8
32	Ccl2mRNA_Stat6 = Ccl2_Stat6	7	IL-4/13 signaling	[10]	#9
33	IL10mRNA + !TTP = IL10_syn	7	IFN/IL-10 signaling	[7]	#10
34	Socs3mRNA = Socs3	7	IFN/IL-10 signaling	[13]	#11
35	IL1b_syn = IL1b_medium	10	protein secretion	[7, 14]	
36	TNFa_syn = TNFa_medium	10	protein secretion	[7, 14]	
37	IL6_syn = IL6_medium	10	protein secretion	[7]	
38	IFNg_syn = IFNg_medium	10	protein secretion	[5]	
39	IFNa_syn = IFNa_medium	10	protein secretion	[6]	
40	IL10_syn = IL10_medium	12	protein secretion	[7]	#12
41	hk_medium + LPS = IL1b_medium	15	maintain secreted proteins	-	
42	hk_medium + LPS = TNFa_medium	15	maintain secreted proteins	-	
43	hk_medium + LPS = IL6_medium	15	maintain secreted proteins	-	
44	hk_medium + LPS = IFNg_medium	15	maintain secreted proteins	-	

No	equation	τ	description	reference	mod
45	hk_medium + LPS = IFNa_medium	15	maintain secreted proteins	-	
46	Socs3 = dum_Socs3_inh	15	activation of the inhibitory dummy species	-	#13

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