

Narrative-based computational modelling of the Gp130/JAK/STAT signalling pathway

Guerriero, ML; Dudka, A; Underhill-Day, Nicholas; Heath, John; Priami, C

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id	description	react	alt
SOCS3 synthesis, degradation and inhibition			
49	if STAT3 is in 4 and STAT3 is dimer and STAT3.Y705 is phospho and STAT3.PIAS3 is not bound then STAT3 synthesises SOCS3	25	
50	SOCS3 degrades	30	
51	if gp130.Y767 is phospho and gp130.SOCS3 is not bound and SOCS3 is not bound and gp130.STAT3 is not bound then SOCS3 binds gp130 on SOCS3	26	
52	if LIFR.Y981 is phospho and LIFR.SOCS3 is not bound and SOCS3 is not bound and LIFR.STAT3 is not bound then SOCS3 binds LIFR on SOCS3	26	
53	if OSMR.Y917 is phospho and OSMR.SOCS3 is not bound and SOCS3 is not bound and OSMR.STAT3 is not bound then SOCS3 binds OSMR on SOCS3	26	
54	if gp130.Y767 is phospho and gp130.SOCS3 is bound and SOCS3 is bound and gp130.STAT3 is not bound then SOCS3 unbinds gp130 on SOCS3	27	
55	if LIFR.Y981 is phospho and LIFR.SOCS3 is bound and SOCS3 is bound and LIFR.STAT3 is not bound then SOCS3 unbinds LIFR on SOCS3	27	
56	if OSMR.Y917 is phospho and OSMR.SOCS3 is bound and SOCS3 is bound and OSMR.STAT3 is not bound then SOCS3 unbinds OSMR on SOCS3	27	
PIAS3 inhibition			
57	if STAT3 is in 4 and STAT3 is dimer and STAT3.Y705 is phospho and STAT3.PIAS3 is not bound and PIAS3 is not bound then PIAS3 binds STAT3 on PIAS3	28	
58	if STAT3 is in 4 and STAT3 is dimer and STAT3.Y705 is phospho and STAT3.PIAS3 is bound and PIAS3 is bound then PIAS3 unbinds STAT3 on PIAS3	29	