

S2 Table. Kinetic and bond graph parameters of the species in the EGFR pathway model.

Species	Kholodenko et al.	Bond graph version	
	$q_{(nM)}$	$K_{(nM^{-1})}$	$q_{(nM)}$
<i>EGF</i>	680	0.00345	680
<i>EGFR</i>	100	0.00345	100
<i>EGF:EGFR complex</i>	0	0.00023	0
<i>R₂</i>	0	5.72797	0
<i>RP</i>	0	1.52491	0
<i>RPL</i>	0	7.00286	0
<i>RPLP</i>	0	932.16266	0
<i>PLC_γ</i>	105	1.37768	105
<i>PLC_γP</i>	0	12.22572	0
<i>PLC_γI</i>	0	0.36677	0
<i>RG</i>	0	0.07026	0
<i>RGS</i>	0	0.07092	0
<i>Grb</i>	85	0.00276	85
<i>SOS</i>	34	0.16826	34
<i>GS</i>	0	0.00697	0
<i>RSh</i>	0	5.79765	0
<i>RShP</i>	0	154.34709	0
<i>ShP</i>	0	0.28005	0
<i>ShG</i>	0	0.02584	0
<i>Shc</i>	150	5.70290	150
<i>RShG</i>	0	14.23610	0
<i>ShGS</i>	0	0.00856	0
<i>RShGS</i>	0	5.55987	0
<i>ATP</i>	--	266223.39715	10 ³
<i>ADP</i>	--	10 ⁻³	10 ³
<i>P</i>	--	10 ⁻³	10 ³