

Table S2: Parameters for Bax activation module

$k_{b1} = 0.1 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$p_1 = 0.02 \mu\text{M}\cdot\text{min}^{-1}$
$k_{b2} = 1 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$p_2 = 0.002 \mu\text{M}\cdot\text{min}^{-1}$
$k_{b3} = 0.001 \text{ min}^{-1}$	$p_3 = 0.006 \mu\text{M}\cdot\text{min}^{-1}$
$k_{b4} = 10 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$p_4 = 0.002 \mu\text{M}\cdot\text{min}^{-1}$
$k_{b5} = 0.06 \text{ min}^{-1}$	$u_1 = 0.03 \text{ min}^{-1}$
$k_{b6} = 0.5 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$u_2 = 0.002 \text{ min}^{-1}$
$k_{b7} = 0.01 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$u_3 = 0.01 \text{ min}^{-1}$
$k_{b8} = 0.001 \text{ min}^{-1}$	$u_4 = 0.002 \text{ min}^{-1}$
$k_{b9} = 0.1 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$u_5 = 0.002 \text{ min}^{-1}$
$k_{b10} = 0.001 \text{ min}^{-1}$	$u_6 = 0.01 \text{ min}^{-1}$
$k_{b11} = 0.5 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$u_7 = 0.001 \text{ min}^{-1}$
$k_{b12} = 0.05 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$u_8 = 0.005 \text{ min}^{-1}$
$k_{b13} = 10 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$u_9 = 0.01 \text{ min}^{-1}$
$k_{b14} = 0.5 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$k_{\text{puma}} = 0.005 \mu\text{M}\cdot\text{min}^{-1}$
$k_{b15} = 0.2 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	$K_f = 0.5 \mu\text{M}$
$k_{b16} = 0.2 \mu\text{M}^{-1}\cdot\text{min}^{-1}$	
$k_{b17} = 0.01 \text{ min}^{-1}$	

Parameters in Bax activation module are adopted from our previous work within one order of magnitude [28].