

Table 1. Dimensional parameters of the model and their typical values

Parameter	Value	Units
k_m^+	1.7×10^{-4}	$(\text{molecules/cell})^{-1} \text{min}^{-1}$
k_m^-	1.7×10^{-4}	$(\text{molecules/cell})^{-1} \text{min}^{-1}$
Ph_T	5×10^3	molecules/cell
mpk_T	10^4	molecules/cell
Ind^m	10^5	molecules/cell
k_n^+	1.3×10^2	molecules/cell · min ⁻¹
k_n^-	2×10^{-2}	min ⁻¹
k_{x_1}	8.3×10^{-1}	min ⁻¹
k_{x_2}	3×10^{-6}	$(\text{molecules/cell})^{-1} \cdot \text{min}^{-1}$
k_{x_3}	1.2×10^3	molecules/cell · min ⁻¹
$K_{M_{mpk}}$	2.5×10^3	molecules/cell
$K_{M_{lat}}$	10^4	molecules/cell

Molar units were converted to molecules per cell assuming a volume of cell of 10 pL.