

Table S2. The initial values of the variables.

Parameter	Description	Value (unit)
$IP_3$	$IP_3$ concentration in the ICS	0.0001 mM
$Ca_i$	$Ca^{2+}$ concentration in the ICS	0.0001 mM
$Ca_{ER}$	$Ca^{2+}$ concentration in the ER	0.00015 mM
$Ca_o$	$Ca^{2+}$ concentration in the ECS	1 mM
$K_o$	$K^+$ concentration in the ECS	3.5 mM
$K_i$	$K^+$ concentration in the ICS	130 mM
$P_i$	Recovery for $K^+$ in the ICS	$0 s^{-1}$
$R_k$	Recovery for $K^+$ in the ECS	$0 s^{-1}$