Independent Variable	Description	Value
[Na ⁺] _o	Extracellular Composition	140mM
[K+] _o	Extracellular Composition	5.4mM
[Ca ²⁺] _o	Extracellular Composition	2.6mM
C _m	Cell Capacitance	6.158pF
vol _i	Cell Cytosol Volume	764fl
vol _{ER}	Endoplasmic Reticulum Volume	280fl
f _i	Cytosolic Ca ²⁺ Buffer Strength	0.01
f _{ER}	ER Ca ²⁺ Buffer Strength	0.025
P _{CaV}	Converting factor for I _{CaV}	48.9 pA mM ⁻¹
P _{KDr}	Converting factor for I _{KDr}	2.1 pA mM ⁻¹
$G_{KCa(BK)}$	Conductance of I _{kca(BK)}	2.13 pA mV ⁻¹ (10%)*
P _{KCa(SK)}	Converting factor of I _{KCa(SK)}	0.2 pA mM ⁻¹
P _{bNSC}	Converting factor of I _{bNSC}	0.00396 pA mM ⁻¹
P _{soc}	Converting factor of I _{SOC}	0.00764 pA mM ⁻¹
K _{0.SER}	Half Activation Conc. Of Ca ²⁺ in ER	0.003mM
G _{K(ATP)}	Max conductance of I _{KATP}	2.31 pA mV ⁻¹ (25%)*
P _{NaK}	Max amplitude of I _{NaK}	350 Pa ms
P_{NaCa}	Max amplitude of I _{NaCa}	204pA (10%)*
P _{PMCA}	Max amplitude of I _{PMCA}	1.56pA
P _{SERCA}	Max pump rate of Ca ²⁺ into ER	0.096fl ms ⁻¹ (10%)*
P _{rel}	Converting factor for ER Ca ²⁺ release	0.46fl ms ⁻¹ (10%)*
k _{glc}	Rate constant for glycolysis	0.000126 ms ⁻¹ (10%)*
K_{Box}	Rate constant of β-oxidation	0.0000063 ms ⁻¹ (10%)*
Pop	Max rate of ATP production	0.0005 ms ⁻¹ (10%)*
[ATP _{tot}]	Total ATP species	4mM (10%)*
k _{ATP}	Rate const of Ca ²⁺ and ind. Ca ²⁺ consumption	0.000062 ms ⁻¹
k _{ATP,Ca}	Rate const of Ca ²⁺ and dep. ATP consumption	0.187 mM-1 ms ⁻¹
$K_{ADP.f}$	Rate constant of ADPf to ADPb	0.0002 ms ⁻¹
k _{ADP.b}	Rate constant of ADPb to ADPf	0.00002 ms ⁻¹