

Table 5. Parameter estimates for the model with  $J_{\text{NCX}} = \text{ef} \cdot f_{\text{allosteric}}(\mathbf{Ca}) \cdot f_{\text{electrochemical}}(\mathbf{Ca}, \mathbf{V})$  in the three cases: 1-s single pulse experiment of figure 2A in ref. 1, 4-s step plus 1-s pulse adaptation experiment of figure 5A–D in ref. 1, and 60-s prolonged stimulation experiment of figure 7A in ref. 2

<i>Parameter</i>	<i>Single-Pulse Stimulation</i>	<i>Step-Pulse Adaptation</i>	<i>Prolonged Stimulation</i>
cap	$7.872 \times 10^{-3}$	$6.241 \times 10^{-4}$	$1.275 \times 10^{-3}$
cc1lin	0.4365	0.3975	0.4408
cc2	35.54	6.357	7.327
ck1lin	8.615	8.786	5.935
ck2	1.129	0.2109	0.7679
clmax	0.8028	0.7566	0.8705
cnmax	0.7672	0.2148	0.7577
ef	2.739	51.08	4.579
Fvol	0.04071	0.02308	0.02841
gl	7.252	6.156	9.786
hmc <sub>1</sub>	0.2379	0.9445	1.019
hmc <sub>2</sub>	8.905	1.288	6.035
inf	4.147	2.974	4.076
inhmax	3.154	5.00	2.891
k1	0.00343	0.1218	0.008969
k2	25.30	12.56	27.45
kinh	0.08441	1.113	0.07165
kinhcn	0.983	0.7247	0.8193
kncx	4.986	8.469	6.268
k <sub>sat</sub>	0.01031	0.0129	0.009469
n <sub>1</sub>	2.064	1.958	3.910
n <sub>2</sub>	1.517	2.314	1.463
ninh	4.441	1.426	23.30
ninhcn	0.7167	1.552	0.8141
nncx	1.074	0.9809	0.987
pd	2.295	16.22	1.395
r1	9.621	12.37	8.901
r2	5.295	3.147	6.475
smax	50.15	51.02	20.02
vcl	-14.3	-4.329	-5.674
vcng	0.01017	0.008681	0.009768
vl	-83.23	-63.76	-52.8
$\alpha$	0.09571	0.04497	0.08095
$\gamma$	1.009	12.9	3.384
$\nu$	0.05451	0.06632	0.01981
-Log-likelihood	$1.053 \times 10^3$	$-2.130 \times 10^2$	$3.808 \times 10^2$ (penalized)

1. Reisert, J. & Matthews, H. R. (1999) *J. Physiol. (London)* **519**, 801–813.
2. Reisert, J. & Matthews, H. R. (2001) *J. Physiol. (London)* **534**, 179–191.