TABLE II. Parameter values of the model MSO neuron in each compartment. (n/a is non-applicable.)

Parameter (unit)	Dendrites (2)	Soma	Axon
Temperature (°C)	37	37	37
Number of segments, nseg	20	2	51
Diameter (μm)	3.5	20	2
Length (μm)	150	40	400
Resistivity, R_a (ohm × cm)	150	150	150
C_M (μF/cm^2)	1	1	1
E_{K} (mV)	−106	−106	−106
E_{Na} (mV)	n/a	62.1	62.1
E_h (mV)	−43	−43	−43
E_{PAS} (mV)	−60	n/a	n/a
$E_{\mathrm{Leak_{Na}}}$ (mV)	n/a	−60	−65
$G\mathrm{max}_{\mathrm{K_{LT}}}$ (S/cm^2)	0.0022	0.054	0.0595
$G\mathrm{max}_{\mathrm{Na}}$ (S/cm^2)	n/a	0.072	0.25
$G\mathrm{max}_h$ (S/cm^2)	0.0011	0.0216	0.0025
G_{PAS} (S/cm^2)	0.00005	n/a	n/a
$G_{\mathrm{Leak_{Na}}}$ (S/cm^2)	n/a	0.0004	0.00005
E_E (mV)	0	n/a	n/a
ζ_E (nS)	18–220	n/a	n/a
$\tau_{E_{\mathrm{rise}}}$ (ms)	0.39996	n/a	n/a
$\tau_{E_{\mathrm{decay}}}$ (ms)	0.4	n/a	n/a
E_I (mV)	n/a	−90	n/a
ζ_I (nS)	n/a	30–72, 3–8	n/a
$\tau_{I_{\mathrm{rise}}}$ (ms)	n/a	0.39996, 0.4	n/a
$\tau_{I_{\mathrm{decay}}}$ (ms)	n/a	0.4, 2.0	n/a
$V_{\mathrm{AP\text{-}THRESH}}$ (mV, set)	n/a	n/a	−20
V_{REST} (mV, measured)	−60.3	−60.3	−64.3
τ_M (ms, calculated at V_{REST})	0.36	0.29	0.79