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Flexibility of the N-Terminal mVDAC1 Segment Controls the Channel's Gating Behavior

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Statistical Model	Amplitude	Mean (nS)	STDV (nS)	R^2
1. Single Gaussian complete range	73.70 ± 8.20	2.34 ± 0.06 (S1)	0.57 ± 0.1	0.76
2. Single Gaussian on S1 population	79.69 ± 3.21	2.53 ± 0.02 (S1)	0.32 ± 0.06	0.97
3. Single Gaussian on S2 population	79.11 ± 9.23	2.03 ± 0.03 (S2)	0.25 ± 0.05	0.88
4. Sum of two Gaussians complete range	70.42 ± 9.35 (S1) 63.98 ± 10.77 (S2)	2.61 ± 0.04(S1) 1.90 ± 0.06 (S2)	0.27 ± 0.08 (S1) 0.26 ± 0.08 (S2)	0.91
5. Sum of two Gaussians on S2 population	80.49 ± 5.00 (S2A) 39.06 ± 7.94 (S2B)	2.03 ± 0.01 (S2A) 1.48 ± 0.02 (S2B)	0.19 ± 0.02 (S2A) 0.08 ± 0.02 (S2B)	0.98

T-test between S1 means from 1 ($n = 680$) & 2 ($n = 386$): Different ($P = 0.0193$)

T-test between S1 means from 1 ($n = 680$) & 4 ($n = 680$): Different ($P = 0.0002$)

T-test between S1 means from 2 ($n = 386$) & 4 ($n = 680$): Similar ($P = 0.1475$)

T-test between S2 means from 3 ($n = 294$) & 4 ($n = 680$): Similar ($P = 0.1642$)

T-test between S2 means from 3 ($n = 294$) & 5 ($n = 294$): Same ($P = 1.0000$)

T-test between S2 means from 4 ($n = 680$) & 5 ($n = 294$): Similar ($P = 0.1558$)

T-test between S1 mean from 4 ($n = 386$) & S2 from 4 ($n = 294$): Different ($P \leq 10^{-4}$)

T-test between S2A mean from 5 ($n = 224$) & S2B from 5 ($n = 70$): Different ($P \leq 10^{-4}$)