

Cells	V _{max} (mV/ms)	MDP (mV)	APD ₃₀ (ms)	APD ₉₀ (ms)	hERG conductance (G _{Kr})
Control					
iPSC-CM (Δ)	13.2 – 25.8 (12.6)	-78.9 – -75.6 (3.3)	262 – 323 (61)	376 – 439 (63)	G _{KriPSC} = 0.218 x 1.0
adult-CM (Δ)	247.3 – 271.3 (24)	-86.5 – -89.5 (3)	147.6 – 191.5 (43.9)	253.3 – 307.9 (54.6)	G _{Kradult} = 0.046 x 1.0
1-50% I _{Kr} block (G _{Kr} scale = 0.99 – 0.50)					
iPSC-CM (Δ)	13.8 – 25.1 (11.3)	-78.8 – -75.6 (3.2)	283 – 369 (86)	389 – 580 (191)	G _{KriPSC} x G _{Kr} scale
adult-CM (Δ)	247 – 275 (28)	-88.7– -89 (0.3)	168 – 226 (85)	276 – 408 (132)	G _{Kradult} x G _{Kr} scale
Dofetilide I _{Kr} block					
iPSC-CM (Δ)	18.1 – 27 (8.9)	-80.3 – -76.6 (3.7)	340 – 411 (71)	536 – 613 (77)	<p>The diagram illustrates the hERG channel gating model with three main states: Neutral (cyan), Drug free (black), and Cationic (red). States are represented by DC₃, DC₂, DC₁, DO, DI, C₃, C₂, C₁, O, and I. Transitions are labeled with rate constants (k), recovery rates (r), activation parameters (α), inactivation parameters (β), and equilibrium potentials (μ). The cationic state is associated with the formula μ₂ = (α₁ × r_{id}) / (r_{od}).</p>
adult-CM (Δ)	255.8 – 278.5 (22.7)	-89.3 – -86.5 (2.8)	253.1 – 314.4 (61.3)	434.7 – 528 (93.3)	