

Human hERG Channel Stable Cell Line

Host cell:	Human embryonic kidney (HEK)
Gene name:	KCNH2
Growth media:	DMEM, 10% FBS
Storage:	Frozen under liquid nitrogen
Functional characteristics:	Mean current amplitude \pm SE = 1.5 ± 0.1 nA (n=133)
Assay Platform:	Manual or automated patch clamp
Note:	hERG is the protein mediating the rapid component (I_{Kr}) of the delayed rectifier potassium current (I_K).

Data:

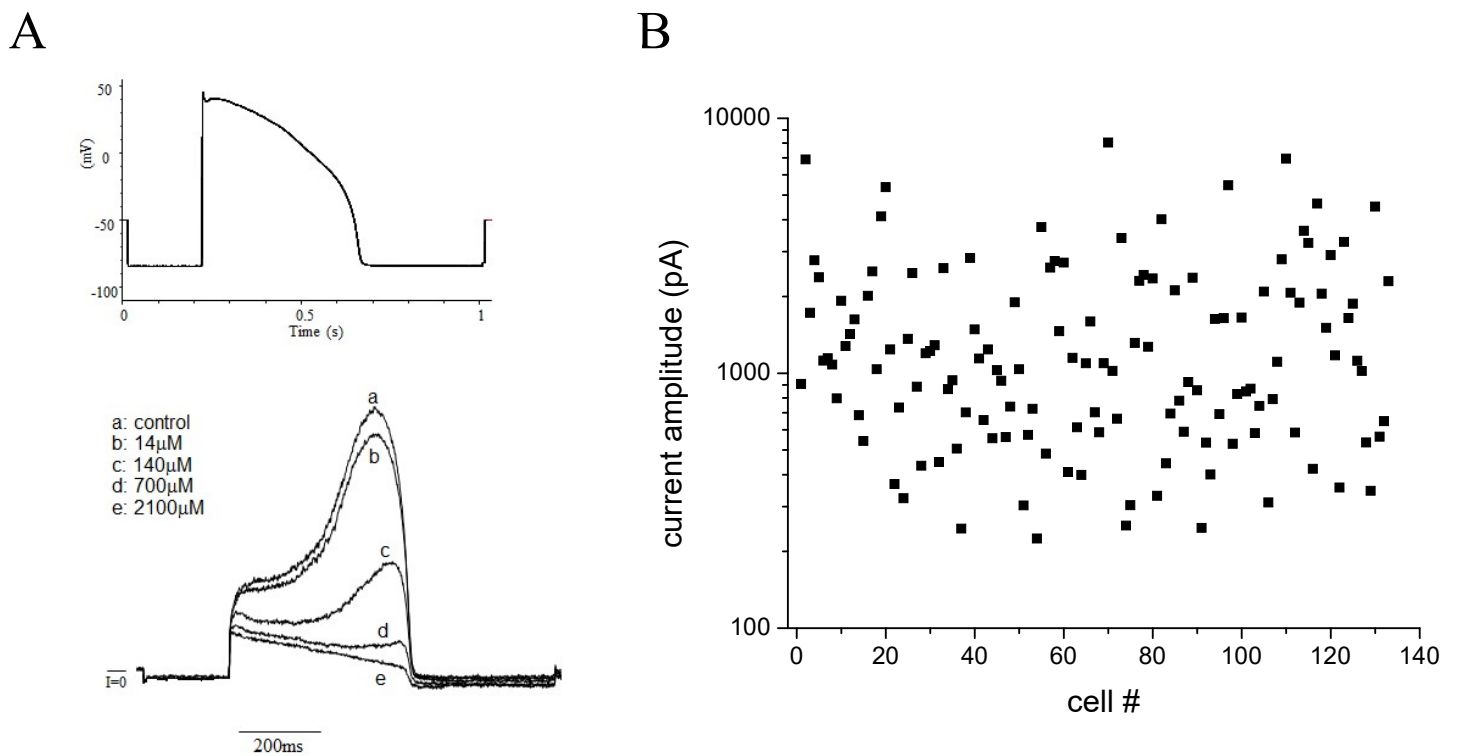


Figure: A. Recording of hERG current elicited by a ventricular action potential waveform in the absence and presence of sotalolol. B. Current amplitude plot taken from 133 cells. All recordings were performed at 37°C using manual patch clamp.

See: Crumb WJ Jr, Vicente J, Johannesen L, Strauss DG. An evaluation of 30 clinical drugs against the comprehensive in vitro proarrhythmia assay (CiPA) proposed ion channel panel. *J Pharmacol Toxicol Methods*. 2016 Apr 6. pii: S1056-8719(16)30017.