

Human Kv4.3 Channel Stable Cell Line

Host cell:	Chinese hamster ovary (CHO)
Gene name:	KCND3
Growth media:	DMEM, 10% FBS
Storage:	Frozen under liquid nitrogen
Functional characteristics:	Mean current amplitude \pm SE = 4.7 ± 0.2 nA (n=87)
Assay Platform:	Manual or automated patch clamp
Note:	Kv4.3 is the protein mediating the transient outward potassium current (I_{to}).

Data:

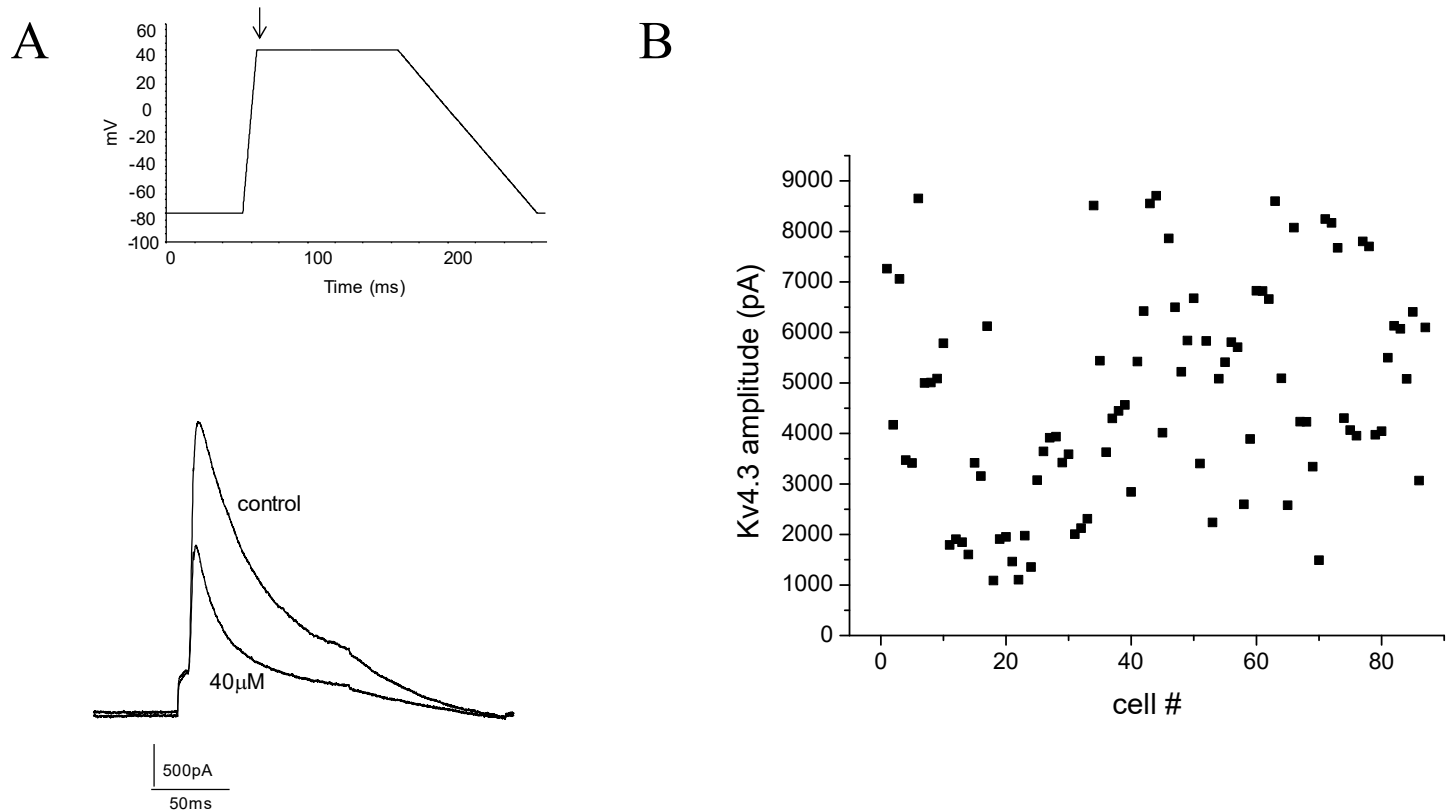


Figure: A. Recording of Kv4.3 current in the absence and presence of quinine. B. Current amplitude plot taken from 87 cells. All recordings were performed at 22°C using manual patch clamp.

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.