

Our new Cav1.2 cell line

Product information

Host cell: CHO-K1

Platforms: Fluorescence, QPatch,

Tested reference inhibitors: Nifedipine, Verapamil, Isradipine

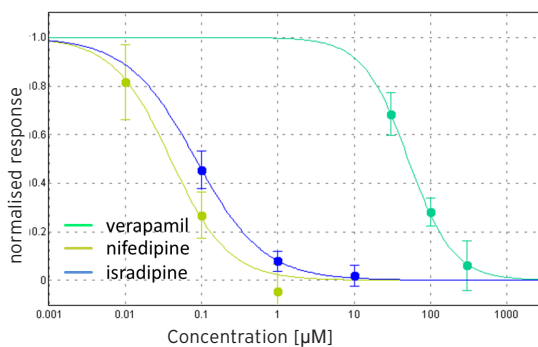
Tested reference activators: FPL64176

Cav1.2 ion channels are expressed in heart, smooth muscle and neurons, and therefore are therapeutic targets in cardiac arrhythmia and hypertension. Due to their key role in shaping the cardiac action potential, they are part of the CiPA-compliant panel of human ion channel to be tested for cardiac safety.

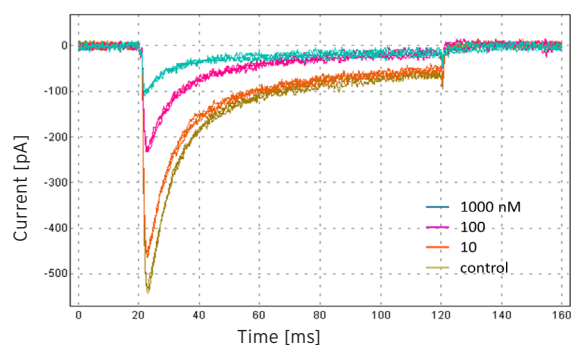
Key features of our Cav1.2 cell line:

- stable expression of all three subunits of the native Cav1.2 channel ($\alpha1c/\beta2/\alpha2\delta$)
- high success rates and reliable performance in automated patch clamp assays.
- Run-down free recordings
- Inducible system: easy to maintain in cell culture, adjustable expression level

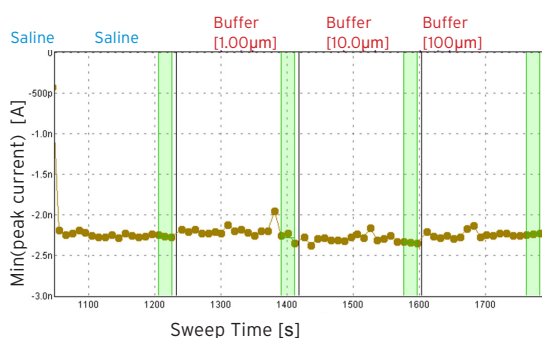
QPatch: Cav1.2 dose response data



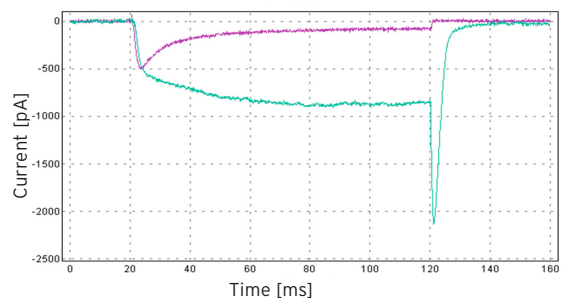
QPatch: Cav1.2 blocked by nifedipine



Stable, run-down free recordings



Effect of FPL64176 on Cav1.2 currents



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