

Cav2.2 Cell Line Data Sheet

Channel	Cav2.2/ β 3/ α 2 δ 1 , N-type
Catalog Ref.	ICE-CHO-Cav2.2
Gene	CACNA1B
Sources	human
Expression system	CHO
Method	whole cell patch clamp
Standard time	2 weeks (<10cpds)
Reference compound	Nifedipine, verapamil, Cadmium (IC ₅₀ =7.0 μ m \pm 704nM)
Target	Pain, Spinal cord injury, Kleefstra syndrome

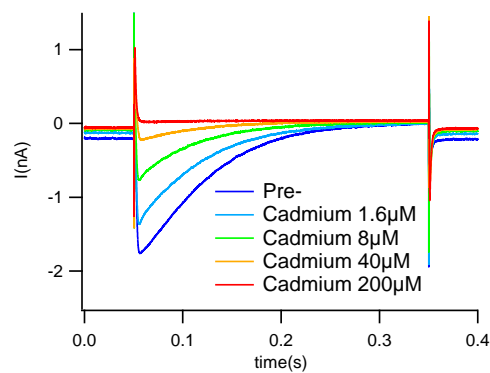


Figure 1. Representative traces of Cav2.2 currents, in the absence or presence of Cadmium at different concentrations

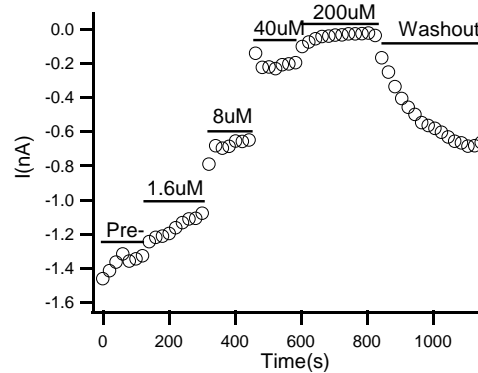


Figure 2. Time course of Cav2.2 channel inhibition achieved by Cadmium

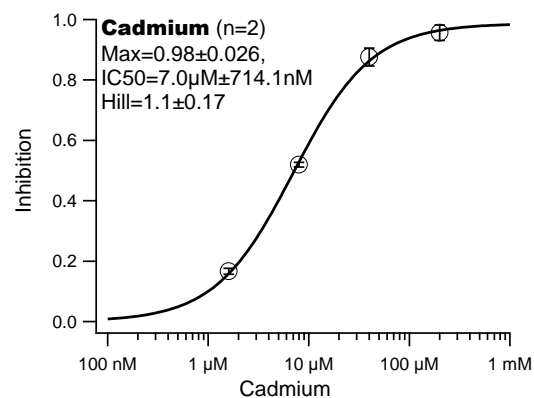


Figure 3. Concentration-dependent effects of Cadmium on $I_{Cav2.2}$

Further validation data available on request.