

## Cav1.2 Cell Line Data Sheet

|                     |  |
|---------------------|--|
| Channel             | Cav1.2/ $\beta 2/\alpha 2/\delta 1$ , L-type   |
| Catalog Ref.        | ICE-CHO-Cav1.2   |
| Gene                | CACNA1C  |
| Sources             | human  |
| Expression system   | CHO  |
| Method              | whole cell patch clamp   |
| Standard time       | 2 weeks (<10cpds)  |
| Reference Inhibitor | Nifedipine(31.3nM $\pm$ 6.8nM), verapamil  |
| Target              | Timothy syndrome, long QT syndrome, Pain, epilepsy, hypertension, stroke, arrhythmia, Autism |

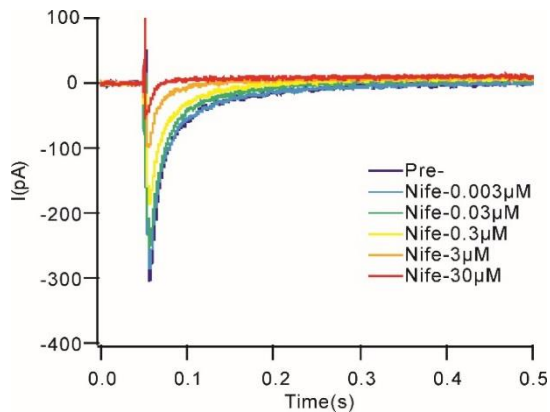


Figure 1. Representative traces of Cav1.2 currents, in the absence or presence of nifedipine at different concentrations

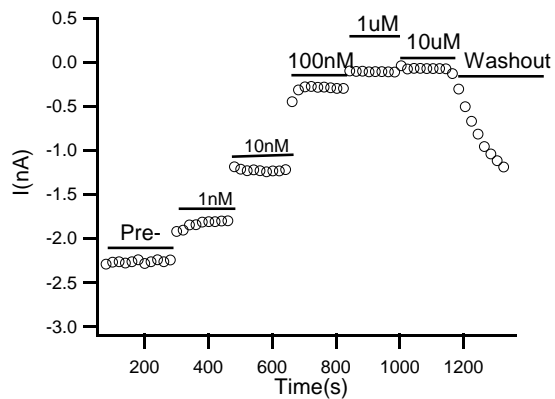


Figure 2. Time course of inhibition on Cav1.2 currents by nifedipine.

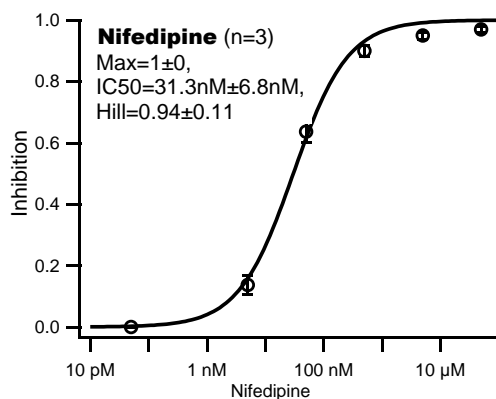


Figure 3. Concentration-dependent effects of nifedipine on  $I_{Cav1.2}$

Further validation data available on request.