|  |
| --- |
| **Effects of lin-taurine on cardiac ion channels** |
| **Effects of lin-taurine at 0.2 μM** |
| Channel Name | I/I0 (0.2 μM) | ΔV0.5 (mV) (0.2 μM) | Gmax/G­max0 (0.2 μM) |
| Kv7.1/KCNE1 | 1.0 ± 0.1 | 1.3 ± 0.7 | 1.0 ± 0.03 |
| Cav1.2 | 1.0 ± 0.02 | 0.6 ± 0.5 | 1.0 ± 0.02 |
| Nav1.5 | 1.0 ± 0.01 | -0.3 ± 0.1 | 1.0 ± 0.01 |
| **Effects of lin-taurine at 0.7 μM** |
| Channel Name | I/I0 (0.7 μM) | ΔV0.5 (mV) (0.7 μM) | Gmax/G­max0 (0.7 μM) |
| Kv7.1/KCNE1 | 1.2 ± 0.2 | -0.3 ± 1.4 | 1.1 ± 0.02 |
| Cav1.2 | 0.9 ± 0.1 | 0.9 ± 0.9 | 0.9 ± 0.02 |
| Nav1.5 | 1.0 ± 0.05 | -2.2 ± 0.7 | 1.0 ± 0.01 |
| **Effects of lin-taurine at 2 μM** |
| Channel Name | I/I0 (2 μM) | ΔV0.5 (mV) (2 μM) | Gmax/G­max0 (2 μM) |
| Kv7.1/KCNE1 | 3.2 ± 0.9 | -12.3 ± 3.1 | 1.7 ± 0.4 |
| Cav1.2 | 0.7 ± 0.1  | -0.3 ± 1.8 | 0.7 ± 0.05 |
| Nav1.5 | 0.6 ± 0.07 | -8.8 ± 1.7 | 0.9 ± 0.05 |
| **Effects of lin-taurine at 7 μM** |
| Channel Name | I/I0 (7 μM) | ΔV0.5 (mV) (7 μM) | Gmax/G­max0 (7 μM) |
| Kv7.1/KCNE1 | 7.7 ± 2.9 | -39.9 ± 3.6 | 1.9 ± 0.6 |
| Cav1.2 | 0.6 ± 0.1 | -1.9 ± 2.5 | 0.6 ± 0.05 |
| Nav1.5 | 0.1 ± 0.02 | -23.5 ± 1.9 | 0.5 ± 0.07 |
| **Effects of lin-taurine at 20 μM** |
| Channel Name | I/I0 (20 μM) | ΔV0.5 (mV) (20 μM) | Gmax/G­max0 (20 μM) |
| Kv7.1/KCNE1 | 10.4 ± 4.0 | -73.1 ± 2.6 | 2.0 ± 0.6 |
| Cav1.2 | 0.5 ± 0.1 | -1.2 ± 4.4 | 0.5 ± 0.04 |
| Nav1.5 | 0.1 ± 0.01 | -34.9 ± 1.5 | 0.3 ± 0.04 |
| Table containing source data for the application of the PUFA analogue lin-taurine on the cardiac Kv7.1/KCNE1, Cav1.2, and Nav1.5 channels at every concentration (0.2, 0.7, 2, 7, and 20 μM). Data represented as (mean ± SEM). |