|  |
| --- |
| **Effects of DHA-glycine on cardiac ion channels** |
| **Effects of DHA-glycine 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 | 1.3 ± 0.1 | -2.0 ± 0.8 | 1.3 ± 0.1 |
| Cav1.2 | 0.9 ± 0.1 | 6.1 ± 3.5 | 1.0 ± 0.1 |
| Nav1.5 | 1.0 ± 0.02 | 0.3 ± 0.1 | 1.0 ± 0.02 |
| **Effects of DHA-glycine 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 | 1.7 ± 0.2 | -3.0 ± 1.0 | 1.5 ± 0.1 |
| Cav1.2 | 1.0 ± 0.1 | 6.4 ± 4.3 | 1.1 ± 0.1 |
| Nav1.5 | 1.0 ± 0.04 | -0.2 ± 0.6 | 1.0 ± 0.03 |
| **Effects of DHA-glycine at 2 μM** |
| Channel Name | I/I0 (2 μM) | ΔV0.5 (mV) (2 μM) | Gmax/G­max0 (2 μM) |
| Kv7.1/KCNE1 | 2.4 ± 0.5 | -5.8 ± 0.9 | 1.7 ± 0.2 |
| Cav1.2 | 0.9 ± 0.1 | 6.1 ± 4.2 | 1.1 ± 0.1 |
| Nav1.5 | 1.1 ± 0.05 | -0.3 ± 0.5 | 1.0 ± 0.04 |
| **Effects of DHA-glycine at 7 μM** |
| Channel Name | I/I0 (7 μM) | ΔV0.5 (mV) (7 μM) | Gmax/G­max0 (7 μM) |
| Kv7.1/KCNE1 | 3.7 ± 1.0  | -10.5 ± 1.0  | 1.9 ± 0.2  |
| Cav1.2 | 0.9 ± 0.1  | 7.6 ± 3.1  | 1.0 ± 0.1  |
| Nav1.5 | 1.1 ± 0.05  | -2.4 ± 0.7  | 1.0 ± 0.04  |
| **Effects of DHA-glycine at 20 μM** |
| Channel Name | I/I0 (20 μM) | ΔV0.5 (mV) (20 μM) | Gmax/G­max0 (20 μM) |
| Kv7.1/KCNE1 | 5.0 ± 1.3 | -16.5 ± 1.3 | 2.0 ± 0.2 |
| Cav1.2 | 0.9 ± 0.1 | 5.2 ± 4.4 | 1.0 ± 0.1 |
| Nav1.5 | 0.7 ± 0.1 | -11.5 ± 1.7 | 0.5 ± 0.1 |
| Table containing source data for the application of the PUFA analogue DHA-glycine 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). |