Summary of data for six multi-channel blockers.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Drug** | ***I*Na** | ***I*NaL** | ***I*CaL** | ***I*to** | ***I*Kr** | ***I*K1** | ***I*Ks** | ***I*NaK** | ***I*NaCa** | **Simulation concentration (μM)** |
| amiodarone  IC50 (μM) | 40.4 | n/a | 5.8 | n/a | 0.03 | n/a | 3.84 | 15.6 | 3.3 | 0.005 |
| nH | 0.75 | n/a | 1 | n/a | 1 | n/a | 0.63 | 1 | 1 |
| Species | Rabbit ventricular myocytes | n/a | Guinea pig ventricular myocytes | n/a | HEK-293 | n/a | Guinea pig ventricular myocytes | Rabbit ventricular myocytes | Guinea pig ventricular myocytes |
| verapamil IC50 (μM) | 7.221 | 6.094 | 0.0794 | n/a | 0.831 | 9.033 | 65.587 | n/a | n/a | 0.3 |
| nH | 0.95 | 1.24 | 0.69 | n/a | 1.17 | 1 | 0.92 | n/a | n/a/ |
| Species | HEK 293 | HEK 293 | CHO cell | n/a | HEK 293 | HEK 293 | HEK 293 | n/a | n/a |
| nifedipine IC50 (μM) | 56.2 | n/a | 0.3 | 26.8 | 275 | 260 | 360 | n/a | n/a | 0.5 |
| nH | 0.59 | n/a | 1 | 0.97 | 0.9 | 0.85 | 0.97 | n/a | n/a |
| Species | Human cardiac fibroblasts | n/a | Guinea pig cardiomyocytes | Human atrial myocytes | Guinea pig ventricular myocytes | Guinea pig ventricular myocytes | Guinea pig ventricular myocytes | n/a | n/a |
| quinidine IC50 (μM) | 17 | 12 | 14.9 | 21.8 | 0.41 | 42.6 | 44 | n/a | n/a | 0.05 |
| nH | 0.92 | 1 | 1.1 | 0.67 | 0.76 | 0.25 | 1.8 | n/a | n/a |
| Species | Guinea pig ventricular myocytes | Rabbit cardiomyocytes | Guinea pig ventricular myocytes | Human atrial myocytes | HEK 293 | Human atrial myocytes | CHO cell | n/a | n/a |
| vanoxerine IC50 (μM) | 0.0346 | 0.0852 | 0.0162 | 2 | 0.0093 | 98.142 | 2.9 | n/a | n/a | 0.005 |
| nH | 0.97 | 1.62 | 0.63 | 1 | 1.11 | 1 | 1 | n/a | n/a |
| Species | HEK 293 | HEK 293 | CHO cell | mouse L cells | HEK 293 | HEK 293 | CHO cell | n/a | n/a |
| bepridil IC50 (μM) | 0.517 | 0.411 | 0.157 | n/a | 0.0738 | 66.536 | 6.156 | n/a | n/a | 0.1 |
| nH | 1.14 | 1.72 | 1.08 | n/a | 1.33 | 1 | 2.33 | n/a | n/a |
| Species | HEK 293 | HEK 293 | CHO cell | n/a | HEK 293 | HEK 293 | HEK 293 | n/a | n/a |