

Supplemental Table 1 – Selectivity profile of GSK-7975A against a variety of over-expressed ion channel proteins tested for antagonistic (left panel) and agonistic (right panel) action.

Target	Species	Activity (IC₅₀)
5HT ₃	Human	>10 μM
CaV1.2 (L-type)	Human	8 μM
CaV3.2 (T-type)	Human	>10 μM
GABA-A	Human	>10 μM
KCNH2 (hERG)	Human	>10 μM
Kv1.3	Human	>10 μM
Kv1.5	Human	>10 μM
NaV1.5	Human	>10 μM
NaV1.7	Human	>10 μM
P2X7	Human	>10 μM
P2X7	Rat	>10 μM
TRPA1	Human	>10 μM
TRPC3	Human	>10 μM
TRPC6	Human	>10 μM
TRPV4	Human	>10 μM
TRPV4	Rat	>10 μM

Target	Species	Activity (EC₅₀)
5HT ₃	Human	>10 μM
GABA-A	Human	>10 μM
Kv3.1	Human	>10 μM
Kv7.2	Human	>10 μM
Kv7.3	Human	>10 μM
TRPA1	Human	>10 μM
TRPC3	Human	>10 μM
TRPC6	Human	>10 μM
TRPV4	Human	>10 μM
TRPV4	Rat	>10 μM