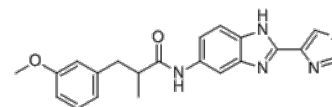


Product Name : RY785
Cat. No. : PC-38493
CAS No. : 689297-68-5
Molecular Formula : C₂₁H₂₀N₄O₂S
Molecular Weight : 392.477
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

RY785 (RY-785) is a potent, selective voltage-gated potassium (**Kv2**) channels inhibitor with IC₅₀ of 50 nM for Kv2.1 channel, possesses good selectivity over Kv1.2 (IC₅₀>10 uM).

RY785 also displays no significant activity against CaV channel, and NaV channels.

RY785 (1 uM) block eliminates Kv2.1 current at all physiologically relevant voltages, inhibiting ≥98% of the Kv2.1 conductance in rat Kv2.1 (Kcnb1) channels heterologously expressed in CHO-K1 cells.

RY785 is an important chemical probe for the study of K(V)2 channels in biological systems.

References

Herrington J, et al. *Mol Pharmacol*. 2011 Dec;80(6):959-64.

Marquis MJ, et al. *J Gen Physiol*. 2022 Jun 6;154(6):e202112981.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com