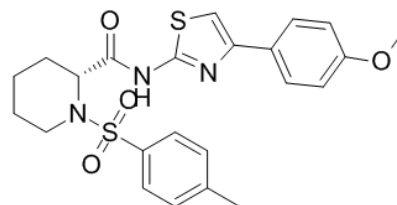


Product Name : ML277
Cat. No. : PC-42992
CAS No. : 1401242-74-7
Molecular Formula : C₂₃H₂₅N₃O₄S₂
Molecular Weight : 471.5923
Target : Potassium Channel
Solubility : DMSO: ≥ 56 mg/mL



Biological Activity

ML277 (CID53347902) is a potent and selective **Kv7.1 (KCNQ1)** potassium channel activator with EC₅₀ of 260 nM, displays highly selectivity against other KCNQ channels (>100-fold selectivity over KCNQ2 and KCNQ4).

ML277 potentiates both homomultimeric KCNQ1 channels and unsaturated heteromultimeric (KCNQ1)₄(KCNE1)_n (n < 4) channels.

ML277 effectively augments IKs current of cultured human cardiomyocytes and shortens action potential duration.

References

Mattmann ME, et al. *Bioorg Med Chem Lett*. 2012 Sep 15;22(18):5936-41.

Yu H, et al. *Proc Natl Acad Sci U S A*. 2013 May 21;110(21):8732-7.

Svalø J, et al. *PLoS One*. 2015 Feb 18;10(2):e0117350.

Kuusela J, et al. *Stem Cell Rev*. 2016 Dec;12(6):698-707.

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

E-mail: tech@probechem.com