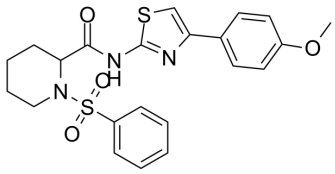
KCNQ1 activator-1

Cat. No.:	HY-145992
CAS No.:	1008671-38-2
Molecular Formula:	$C_{22}H_{23}N_3O_4S_2$
Molecular Weight:	457.57
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (546.36 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1855 mL	10.9273 mL	21.8546 mL
	5 mM	0.4371 mL	2.1855 mL	4.3709 mL
	10 mM	0.2185 mL	1.0927 mL	2.1855 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

KCNQ1 activator-1 (compound 3) is a potent activator of KCNQ1 channel. KCNQ1 activator-1 has the potential for the research of long QT syndrome (LQTS)[1].

REFERENCES

[1]. Mattmann ME, et al. Identification of (R)-N-(4-(4-methoxyphenyl)thiazol-2-yl)-1-tosylpiperidine-2-carboxamide, ML277, as a novel, potent and selective K(v)7.1 (KCNQ1) potassium channel activator. Bioorg Med Chem Lett. 2012;22(18):5936-5941.

Caution: Product has not been fully validated for medical applications. For research use only.

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