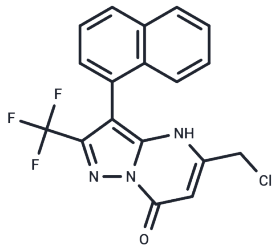
Data Sheet (Cat.No.T8446)

TargetMol

QO-40

Chemical Properties



CAS No. : 1259536-70-3

Formula: C18H11ClF3N3O

Molecular Weight: 377.75

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	QO-40 is a KCNQ2/3 potassium channels activator.
Targets(IC50)	Potassium Channel
In vitro	QO-40 potently augmented KCNQ2/3 channels expressed in Chinese hamster ovary cells and shifted the half-maximal activation voltage (V(1/2)) in the hyperpolarizing direction.?The V(1/2) was negatively shifted in a concentration-dependent manner.?The compounds markedly slowed both KCNQ2/3 channel activation and deactivation kinetics.

Solubility Information

Solubility	DMSO: 25 mg/mL (66.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6473 mL	13.2363 mL	26.4725 mL
5 mM	0.5295 mL	2.6473 mL	5.2945 mL
10 mM	0.2647 mL	1.3236 mL	2.6473 mL
50 mM	0.0529 mL	0.2647 mL	0.5295 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jia C , Qi J , Zhang F , et al. Activation of KCNQ2/3 Potassium Channels by Novel Pyrazolo[1,5-a]pyrimidin-7(4H)-One Derivatives[J]. Pharmacology, 2011, 87(5-6):297-310.

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