

QO-58

Chemical Properties

CAS No. : 1259536-62-3

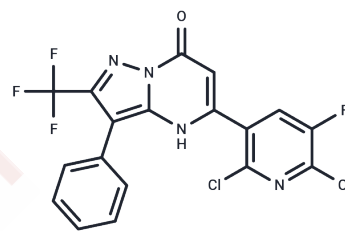
Formula: C₁₈H₈Cl₂F₄N₄O

Molecular Weight: 443.18

Store at low temperature

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-58 is a novel Kv7 activator (opener) that activates neuronal Kv7/KCNQ/M channels, dose-dependently activating Kv7 currents, enhancing native neuronal M currents, and causing a decrease in evoked action potentials. It has anti-nociceptive effects on inflammatory pain and can be used for neuronal excitability disorders.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	DMSO: 50 mg/mL (112.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2564 mL	11.2821 mL	22.5642 mL
5 mM	0.4513 mL	2.2564 mL	4.5128 mL
10 mM	0.2256 mL	1.1282 mL	2.2564 mL
50 mM	0.0451 mL	0.2256 mL	0.4513 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

Zhang F, et al. Modulation of K(v)7 potassium channels by a novel opener pyrazolo[1,5-a]pyrimidin-7(4H)-one compound QO-58. Br J Pharmacol. 2013;168(4):1030-1042.

Wu CL, et, al. Evidence for Dual Activation of IK(M) and IK(Ca) Caused by QO-58 (5-(2,6-Dichloro-5-fluoropyridin-3-yl)-3-phenyl-2-(trifluoromethyl)-1H-pyrazolo[1,5-a]pyrimidin-7-one). Int J Mol Sci. 2022 Jun 24;23(13):7042.

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