

IQM-266

Chemical Properties

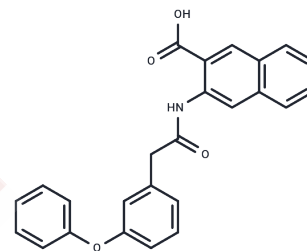
CAS No. : 1956337-58-8

Formula: C₂₅H₁₉NO₄

Molecular Weight: 397.42

Storage: Keep away from moisture, Store at low temperature
 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	IQM-266 is a DREAM ligand (KD = 4.63 μM) and KV4 current modulator. IQM-266 inhibits KV4.3/DREAM currents in a concentration-, voltage-, and time-dependent manner, increases transmembrane charge, and modulates IA currents in rat DRG neurons, making it a potential therapeutic candidate for neurological disorders.
Targets(IC50)	Potassium Channel
In vitro	IQM-266 (3-10 μM) dose-dependently reduced the peak amplitude of IA in rat dorsal root ganglion (DRG) neurons [1]. When depolarizing pulse stimulation was applied, IQM-266 (3 μM) increased transmembrane charge transfer in CHO cells while decreasing the peak amplitude of IA current and slowing its inactivation process [1].

Solubility Information

Solubility	DMSO: 80.00 mg/mL (201.30 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	2.5162 mL	12.5811 mL	25.1623 mL
5 mM	0.5032 mL	2.5162 mL	5.0325 mL
10 mM	0.2516 mL	1.2581 mL	2.5162 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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

Peraza DA, et al. Identification of IQM-266, a Novel DREAM Ligand That Modulates KV4 Currents. Front Mol Neurosci. 2019 Feb 4;12:11.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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