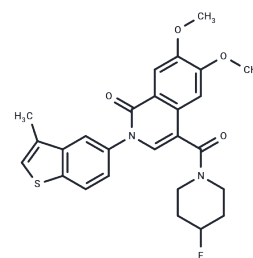


LPA5 antagonist 2

Chemical Properties

CAS No. :	2839471-44-0
Formula:	C ₂₆ H ₂₅ FN ₂ O ₄ S
Molecular Weight:	480.55
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	LPA5 antagonist 2 is a highly water-soluble, selective antagonist of the lysosomal phosphatidic acid receptor 5 (LPA5) that inhibits downstream calcium mobilization (IC ₅₀ = 69 nM) and cAMP signaling (IC ₅₀ = 340 nM) by blocking the binding of its natural ligand, LPA. LPA5 antagonist 2 significantly alleviates CFA-induced inflammatory pain and nociceptive hypersensitivity and can be used in research related to inflammatory and neuropathic pain.
Targets(IC50)	Others,LPL Receptor
In vitro	LPA5 antagonist 2 (0-10 μM) inhibits hLPA5 calcium mobilization with an IC ₅₀ value of 69 nM and inhibits hLPA5 cAMP with an IC ₅₀ value of 340 nM.[1] LPA5 antagonist 2 (0-10 μM) shows no significant affinity for other receptors, exhibits good target selectivity for LPA5.[1]

Solubility Information

Solubility	DMSO: 80 mg/mL (166.48 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	2.0809 mL	10.4047 mL	20.8095 mL
5 mM	0.4162 mL	2.0809 mL	4.1619 mL
10 mM	0.2081 mL	1.0405 mL	2.0809 mL
50 mM	0.0416 mL	0.2081 mL	0.4162 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 DH, et al. Isoquinolone derivatives as lysophosphatidic acid receptor 5 (LPA5) antagonists: Investigation of structure-activity relationships, ADME properties and analgesic effects. EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. 2022.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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