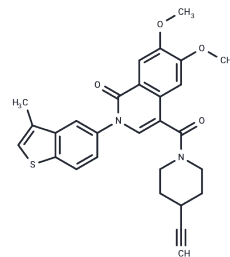


LPA5 antagonist 1

Chemical Properties

CAS No. :	2839471-45-1
Formula:	C ₂₈ H ₂₆ N ₂ O ₄ S
Molecular Weight:	486.58
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 1 is a highly potent and selective antagonist of lysophosphatidic acid receptor 5 (LPA5), with an IC ₅₀ value of 32 nM. LPA5 antagonist 1 is a small molecule with high brain permeability that significantly alleviates mechanical allodynia in a CFA-induced inflammatory pain model and can be used to study the mechanisms underlying inflammatory and neuropathic pain. LPA5 antagonist 1 is a click chemistry reagent containing an alkyne functional group, capable of undergoing a copper-catalyzed azide-alkyne cycloaddition (CuAAC) reaction with molecules bearing an azide group.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (164.41 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	2.0552 mL	10.2758 mL	20.5516 mL
5 mM	0.411 mL	2.0552 mL	4.1103 mL
10 mM	0.2055 mL	1.0276 mL	2.0552 mL
50 mM	0.0411 mL	0.2055 mL	0.411 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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