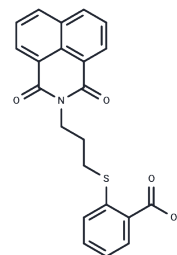


GRI977143

Chemical Properties

CAS No. : 325850-81-5
 Formula: C₂₂H₁₇N₂O₄S
 Molecular Weight: 391.44
 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	GRI977143 is a selective and non-lipid agonist of LPA2 (EC ₅₀ = 3.3 μM). GRI977143 inhibits the activation of caspases 3, 7, 8, and 9 and reduces DNA fragmentation.
Targets(IC ₅₀)	Caspase, LPA Receptor, LPL Receptor
In vitro	GRI977143 (10 μM) reduces caspase 3 and 7 activation by 51% in Doxorubicin-induced apoptotic signaling in vector-transduced or LPA2-transduced MEF. GRI977143 stimulates the activation of extracellular signal-regulated kinase 1/2 and promotes the assembly of LPA2, thyroid receptor-interacting protein 6 and Na ⁺ -H ⁺ exchange regulatory factor 2 [1].

Solubility Information

Solubility	DMSO: 1 mg/mL (2.55 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	2.5547 mL	12.7733 mL	25.5467 mL
5 mM	0.5109 mL	2.5547 mL	5.1093 mL
10 mM	0.2555 mL	1.2773 mL	2.5547 mL
50 mM	0.0511 mL	0.2555 mL	0.5109 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

Gyöngyi N. Kiss, et al. Virtual Screening for LPA2-Specific Agonists Identifies a Nonlipid Compound with Antiapoptotic Actions. Mol Pharmacol. 2012 Dec; 82(6): 1162-1173.

Gyöngyi Nagyné Kiss, et al. PHARMACOLOGICAL AND CELLULAR CHARACTERIZATION OF GRI977143, A NOVEL NONLIPID LPA2 RECEPTOR AGONIST IDENTIFIED BY VIRTUAL SCREENING.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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