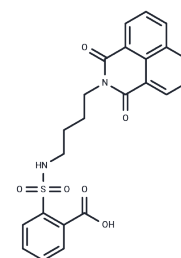


DBIBB

Chemical Properties

CAS No. : 1569309-92-7
Formula: C₂₃H₂₀N₂O₆S
Molecular Weight: 452.48
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	DBIBB is a non-lipid agonist of specific lysophosphatidic acid (LPA2) type 2 G-protein-coupled receptor. It is a potentially active molecule for the treatment of acute radiation syndrome caused by high intensity gamma rays on hematopoietic and gastrointestinal systems. It is an intermediate in organic synthesis and drug research. DBIBB can be used to prepare various compounds that reduce gastrointestinal radiation syndrome, increase intestinal crypt survival and intestinal cell proliferation, and reduce cell apoptosis.
Targets(IC50)	LPA Receptor

Solubility Information

Solubility	DMSO: 90.0 mg/mL (198.9 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.210 mL	11.0502 mL	22.1004 mL
5 mM	0.442 mL	2.210 mL	4.4201 mL
10 mM	0.221 mL	1.105 mL	2.210 mL
50 mM	0.0442 mL	0.221 mL	0.442 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.

Reference

Patil R, et al. Combined mitigation of the gastrointestinal and hematopoietic acute radiation syndromes by an LPA2 receptor-specific nonlipid agonist. Chem Biol. 2015;22(2):206-216.

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