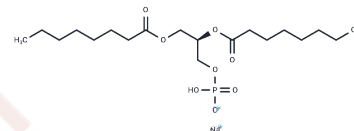


Diocanoylphosphatidic acid sodium

Chemical Properties

CAS No. :	321883-54-9
Formula:	C19H36NaO8P
Molecular Weight:	446.45
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Diocanoylphosphatidic acid sodium (DOPA sodium) is a bioactive phosphatidic acid (PA) derivative serving as a key lipid signaling molecule. Derived from glycerophospholipids via the action of phospholipase D (PLD), it acts as a precursor to diacylglycerol (DAG) and lysophosphatidic acid (LPA). It specifically binds to and activates the FRB domain of the mammalian target of rapamycin (mTOR), thereby promoting mTOR phosphorylation. Additionally, it modulates the respiratory burst in phagocytic cells such as neutrophils. In oncological studies, it has been shown to enhance the viability of gallbladder cancer (GBC) cells inhibited by histone deacetylase inhibitors (HDACI), suggesting a protective role against epigenetic-mediated growth suppression.
Targets(IC50)	mTOR

Solubility Information

Solubility	DMSO: 100 mg/mL (223.99 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	2.2399 mL	11.1995 mL	22.3989 mL
5 mM	0.448 mL	2.2399 mL	4.4798 mL
10 mM	0.224 mL	1.1199 mL	2.2399 mL
50 mM	0.0448 mL	0.224 mL	0.448 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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