

1-Octadecyl Lysophosphatidic Acid

Chemical Properties

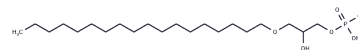
CAS No. : 52977-29-4

Formula: C₂₁H₄₅O₆P

Molecular Weight: 424.559

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	1-Octadecyl lysophosphatidic acid (1-octadecyl LPA) is a LPA analog containing stearic acid at the sn-1 position. LPA binds to one of five different G protein linked receptors to mediate a variety of biological responses including cell proliferation, smooth muscle contraction, platelet aggregation, neurite retraction, and cell motility. Alkyl ether-linked LPA derivatives have a higher platelet aggregating activity than the acyl derivatives, most likely stemming from an alkyl-specific LPA receptor. For example, 1-octadecyl LPA has a platelet aggregating EC ₅₀ value of 9 nM versus 1-octadecanoyl LPA which has an EC ₅₀ value of 177 nM.
Targets(IC ₅₀)	Others,LPL Receptor

Solubility Information

Solubility	DMSO: 10 mg/mL (23.55 mM),Sonication is recommended. Ethanol: 10 mg/mL (23.55 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) ((1:1): 0.5 mg/mL (1.18 mM),Sonication is recommended. DMF: 10 mg/mL (23.55 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	2.3554 mL	11.7769 mL	23.5538 mL
5 mM	0.4711 mL	2.3554 mL	4.7108 mL
10 mM	0.2355 mL	1.1777 mL	2.3554 mL
50 mM	0.0471 mL	0.2355 mL	0.4711 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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