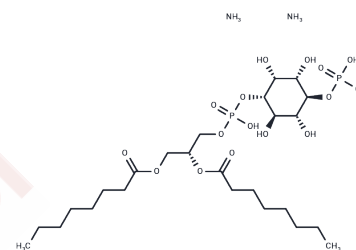


PtdIns-(4)-P1 (1,2-dioctanoyl) (ammonium salt)

Chemical Properties

CAS No. :	1246303-11-6
Formula:	C ₂₅ H ₅₄ N ₂ O ₁₆ P ₂
Molecular Weight:	700.653
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	The phosphatidylinositol (PtdIns) phosphates represent a small percentage of total membrane phospholipids. However, they play a critical role in the generation and transmission of cellular signals. PtdIns-(4)-P1 (1,2-dioctanoyl) is a synthetic analog of natural phosphatidylinositol (PtdIns) featuring C8:0 fatty acids at the sn-1 and sn-2 positions. The compound contains the same inositol and diacylglycerol (DAG) stereochemistry as the natural compound. PtdIns-(4)-P1 can be phosphorylated to di-(PtdIns-P2; PIP2) and triphosphates (PtdIns-P3; PIP3). Hydrolysis of PtdIns-(4,5)-P2 by phosphoinositide (PI)-specific phospholipase C generates inositol triphosphate (IP3) and DAG which are key second messengers in an intricate biochemical signal transduction cascade.
Targets(IC50)	Others

Solubility Information

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

	1mg	5mg	10mg
1 mM	1.4272 mL	7.1362 mL	14.2725 mL
5 mM	0.2854 mL	1.4272 mL	2.8545 mL
10 mM	0.1427 mL	0.7136 mL	1.4272 mL
50 mM	0.0285 mL	0.1427 mL	0.2854 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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