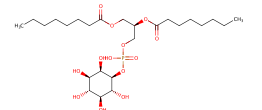


PtdIns-(1,2-dioctanoyl) (sodium salt)

Chemical Properties

CAS No. :	899827-36-2
Formula:	C ₂₅ H ₄₇ NaO ₁₃ P
Molecular Weight:	609.602
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-(1,2-dioctanoyl) is a synthetic analog of natural phosphatidylinositol (PtdIns) containing C8:0 fatty acids at the sn-1 and sn-2 positions. The compound features the same inositol and diacyl glycerol (DAG) stereochemistry as that of the natural compound. The short fatty acid chains of this analog, compared to naturally-occurring PtdIns, gives it different physical properties including high solubility in aqueous media. PtdIns are phosphorylated to mono- (PtdIns-P; PIP), di- (PtdIns-P ₂ ; PIP ₂), and triphosphates (PtdIns-P ₃ ; PIP ₃). Hydrolysis of PtdIns-(4,5)-P ₂ by phosphoinositide (PI)-specific phospholipase C generates inositol triphosphate (IP ₃) and DAG which are key second messengers in an intricate biochemical signal transduction cascade.
Targets(IC50)	Others,P-gp

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	1.6404 mL	8.2021 mL	16.4042 mL
5 mM	0.3281 mL	1.6404 mL	3.2808 mL
10 mM	0.164 mL	0.8202 mL	1.6404 mL
50 mM	0.0328 mL	0.164 mL	0.3281 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481