Data Sheet (Cat.No.T37028)

TargetMol

PtdIns-(3,4,5)-P3 (1,2-dipalmitoyl) (sodium salt)

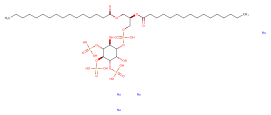
Chemical Properties

CAS No. : 1628353-02-5

Formula: C41H78Na4O22P4

Molecular Weight: 1138.9

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 phosphates represent a small percentage of total membrane phospholipids. However, they play a critical role in the generation and transmission of cellular signals. PtdIns-(3,4,5)-P3 can serve as an anchor for the binding of signal transduction proteins bearing pleckstrin homology (PH) domains. Centuarin α and the Akt-family of GTPase activating proteins are examples of PtdIns-(3,4,5)-P3-binding proteins. Protein-binding to PtdIns-(3,4,5)-P3 is important for cytoskeletal rearrangements and membrane trafficking. PtdIns-(3,4,5)-P3 is resistant to cleavage by PI-specific phospholipase C (PLC). Thus, it is likely to function in signal transduction as a modulator in its own right, rather than as a source of inositol tetraphosphates.
Targets(IC50)	Others

Solubility Information

Solubility	CHCl3:CH3OH:H2O (2.5:3:1): 3.8 mg/mL (3.34 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (8.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.878 mL	4.3902 mL	8.7804 mL
5 mM	0.1756 mL	0.878 mL	1.7561 mL
10 mM	0.0878 mL	0.439 mL	0.878 mL
50 mM	0.0176 mL	0.0878 mL	0.1756 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481