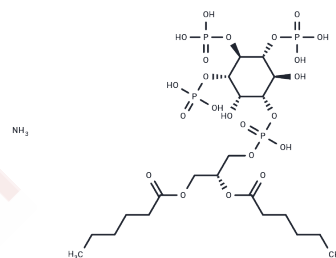


## PtdIns-(3,4,5)-P3 (1,2-dihexanoyl) (ammonium salt)

### Chemical Properties

CAS No. :	799268-62-5
Formula:	C <sub>21</sub> H <sub>45</sub> NO <sub>22</sub> P <sub>4</sub>
Molecular Weight:	787.471
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-(3,4,5)-P3, also known as PIP3, 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. PIP3 can serve as an anchor for the binding of signal transduction proteins bearing pleckstrin homology (PH) domains. Protein binding to PIP3 is important for cytoskeletal rearrangement and membrane trafficking. PtdIns-(3,4,5)-P3 (1,2-dihexanoyl) is a synthetic analog of natural PIP3 with C6:0 fatty acids at the sn-1 and sn-2 positions. The compound features the same inositol and diacylglycerol (DAG) stereochemistry as that of the natural compound. The short fatty acid chains of this analog give it different physical properties from naturally-occurring PIP3, including higher solubility in aqueous media.
Targets(IC50)	Others,Liposome

### Solubility Information

Solubility	H <sub>2</sub> O: 10 mg/mL (12.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.2699 mL	6.3494 mL	12.6989 mL
5 mM	0.254 mL	1.2699 mL	2.5398 mL
10 mM	0.127 mL	0.6349 mL	1.2699 mL
50 mM	0.0254 mL	0.127 mL	0.254 mL

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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.

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