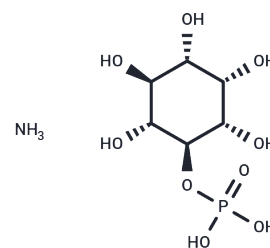


D-myo-Inositol-4-phosphate (ammonium salt)

Chemical Properties

CAS No. :	142760-33-6
Formula:	C ₆ H ₁₆ NO ₉ P
Molecular Weight:	277.166
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	D-myo-Inositol-4-phosphate (Ins(4)P1) is a member of the inositol phosphate (InsP) molecular family that play critical roles as small, soluble second messengers in the transmission of cellular signals. The most studied InsP, Ins(1,4,5)P3, is a second messenger produced in cells by phospholipase C (PLC)-mediated hydrolysis of phosphatidylinositol-4,5-diphosphate. Binding of Ins(1,4,5)P3 to its receptor on the endoplasmic reticulum results in opening of the calcium channels and an increase in intracellular calcium. Ins(4)P1 can be formed by dephosphorylation of Ins(1,4)P2 by inositol polyphosphate 1-phosphatase or dephosphorylated to inositol by inositol monophosphatase.
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Solubility Information

Solubility	H2O: 10 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6079 mL	18.0395 mL	36.0789 mL
5 mM	0.7216 mL	3.6079 mL	7.2158 mL
10 mM	0.3608 mL	1.8039 mL	3.6079 mL
50 mM	0.0722 mL	0.3608 mL	0.7216 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.

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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