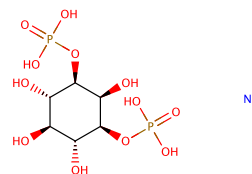


D-myo-Inositol-1,3-diphosphate (sodium salt)

Chemical Properties

CAS No. : 208584-52-5
 Formula: C₆H₁₂Na₂O₁₂P₂
 Molecular Weight: 384.08
 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	D-myo-Inositol-1,3-phosphate (Ins(1,3)P) 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)P ₃ is a second messenger produced in cells by phospholipase C (PLC)-mediated hydrolysis of phosphatidylinositol-4,5-biphosphate. Binding of Ins(1,4,5)P ₃ to its receptor on the endoplasmic reticulum results in opening of the calcium channels and an increase in intracellular calcium. Ins(1,3)P ₂ can be dephosphorylated to Ins(1)P by inositol polyphosphate 3-phosphatase and further dephosphorylated to inositol by inositol monophosphatase.
Targets(IC50)	Others, Calcium Channel

Solubility Information

Solubility	H ₂ O: 1 mg/mL (2.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6036 mL	13.0181 mL	26.0362 mL
5 mM	0.5207 mL	2.6036 mL	5.2072 mL
10 mM	0.2604 mL	1.3018 mL	2.6036 mL
50 mM	0.0521 mL	0.2604 mL	0.5207 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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