Data Sheet (Cat.No.T37059)

TargetMol

D-myo-Inositol-1,3,4,6-tetraphosphate (ammonium salt)

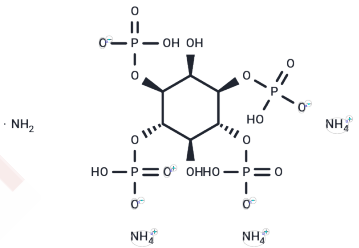
Chemical Properties

CAS No. : 142507-74-2

Formula: C6H26N4O18P4

Molecular Weight: 566.179

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 inositol phosphates (IPs) are a family of molecules produced by altering the phosphorylation status of each of the six carbons on the cyclic inositol structure. They act as second messengers, regulating a wide array of cellular functions. D-myo-inositol-1,3,4,6-tetraphosphate(Ins(1,3,4,6)-P4) largely acts an intermediate, serving as substrate for inositol-1,3,4,6-tetraphosphate 5-kinase to produce inositol-1,3,4,5,6-pentaphosphate, or inositol-1,3,4,6-tetraphosphate 2-kinase to give inositol-1,2,3,4,6-pentaphosphate. These inositol pentaphosphates can be further phosphorylated to produce inositol-1,2,3,4,5,6-hexakisphosphate, or phytic acid, which serves diverse roles in eukaryotic tissues. Ins(1,3,4,6)-P4 is a poor activator of the inositol 1,4,5-trisphospate receptor in vitro. Other functions of this IP remain to be elucidated.
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): 50 mg/mL (88.31 mM),Sonication is recommended. H2O: 50 mg/mL (88.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7662 mL	8.8311 mL	17.6622 mL
5 mM	0.3532 mL	1.7662 mL	3.5324 mL
10 mM	0.1766 mL	0.8831 mL	1.7662 mL
50 mM	0.0353 mL	0.1766 mL	0.3532 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.

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