Data Sheet (Cat.No.T22869)

TargetMol

Inosine-5'-monophosphate (sodium salt hydrate)

Chemical Properties

CAS No. : 20813-76-7

Formula: C10H29N4Na2O16P

Molecular Weight: 536.29

Storage: Keep away from moisture
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	Inosine-5'-monophosphate sodium salt hydrate is a purine nucleotide composed of hypoxanthine, ribose, and a phosphate group. It serves as an important intermediate in purine metabolism in vivo and is involved in the biosynthesis of nucleotides such as GMP. It exhibits umami-enhancing properties and is commonly used in combination with glutamate salts for flavor enhancement in food science.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 80.00 mg/mL (149.17 mM),Sonication is recommended. PBS, pH 7.2: ≤10 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8647 mL	9.3233 mL	18.6466 mL
5 mM	0.3729 mL	1.8647 mL	3.7293 mL
10 mM	0.1865 mL	0.9323 mL	1.8647 mL
50 mM	0.0373 mL	0.1865 mL	0.3729 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.

Reference

Davies O, et al. Characterisation of multiple substrate-specific (d)ITP/(d)XTPase and modelling of deaminated purine nucleotide metabolism. BMB Rep. 2012 Apr;45(4):259-64.