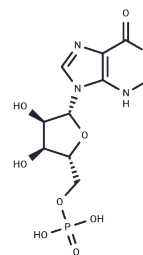


INOSINIC ACID

Chemical Properties

CAS No. :	131-99-7
Formula:	C ₁₀ H ₁₃ N ₄ O ₈ P
Molecular Weight:	348.21
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Inosinic acid (IMP) is a purine nucleotide which has hypoxanthine as the base and one phosphate group esterified to the sugar moiety. Inosinic acid is a nucleotide present in muscle and other tissues. It is formed by the deamination of AMP and when hydrolysed produces inosine. Inosinic acid is the ribonucleotide of hypoxanthine and is the first compound formed during the synthesis of purine. Inosine 5'-monophosphate (IMP) is used as a substrate to study the distribution, specificity and kinetics of inosine-5'-monophosphate dehydrogenase (IMPDH).
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 25 mg/mL (71.8 mM), (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8718 mL	14.3592 mL	28.7183 mL
5 mM	0.5744 mL	2.8718 mL	5.7437 mL
10 mM	0.2872 mL	1.4359 mL	2.8718 mL
50 mM	0.0574 mL	0.2872 mL	0.5744 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.

Reference

Chen J, Li T, Huang D, et al. Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to elucidate the antidepressant mechanism of Chaogui granules by regulating purine

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