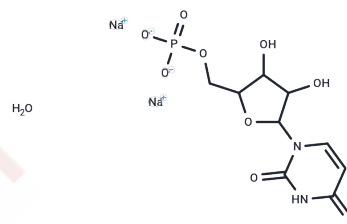


Uridine-5'-monophosphate (sodium salt hydrate)

Chemical Properties

CAS No. :	681435-27-8
Formula:	C ₉ H ₁₃ N ₂ Na ₂ O ₁₀ P
Molecular Weight:	386.16
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Uridine-5'-monophosphate (UMP) is a ribonucleotide. It is formed via decarboxylation of orotidine-5'-monophosphate (5'-OMP) by OMP decarboxylase. UMP is further phosphorylated by UMP-CMP kinase to form UDP and UTP during nucleic acid biosynthesis. Formulations containing UMP have been used as dietary supplements.
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (25.9 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	2.5896 mL	12.948 mL	25.896 mL
5 mM	0.5179 mL	2.5896 mL	5.1792 mL
10 mM	0.259 mL	1.2948 mL	2.5896 mL
50 mM	0.0518 mL	0.259 mL	0.5179 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

Berg, J.M., Tymoczko, J.L., and Stryer, L. Nucleotide Biosynthesis Biochemistry (2002)

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