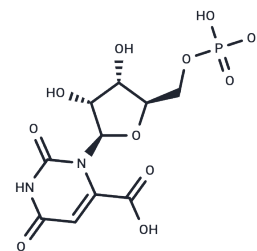


Orotidine 5'-monophosphate

Chemical Properties

CAS No. :	2149-82-8
Formula:	C10H13N2O11P
Molecular Weight:	368.191
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	Orotidine 5'-monophosphate, a pyrimidine ribonucleoside, functions as an endogenous metabolite in human, E. coli, and mouse processes. It serves as an intermediate in uridine monophosphate (UMP) biosynthesis and is utilized in researching the mechanism of orotidine 5'-monophosphate decarboxylase.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	Orotidine 5'-monophosphate is synthesized from orotate and phosphoribosyl pyrophosphate by the enzyme orotate phosphoribosyltransferase. The enzyme UMP synthase subsequently converts OMP into uridine 5'-monophosphate [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.716 mL	13.5799 mL	27.1599 mL
5 mM	0.5432 mL	2.716 mL	5.432 mL
10 mM	0.2716 mL	1.358 mL	2.716 mL
50 mM	0.0543 mL	0.2716 mL	0.5432 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

RJund, et al. Regulation of orotidylic acid pyrophosphorylase in Saccharomyces cerevisiae. J Bacteriol. 1972 Jan; 109(1):196-202.

From Wikipedia. Orotidine 5'-monophosphate

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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