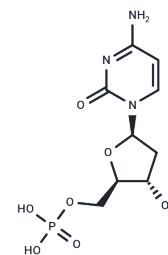


2'-Deoxycytidine-5'-monophosphoric acid

Chemical Properties

CAS No. :	1032-65-1
Formula:	C ₉ H ₁₄ N ₃ O ₇ P
Molecular Weight:	307.2
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	2'-Deoxycytidine-5'-monophosphoric acid (2'-Deoxycytidine 5'-monophosphate) is a substrate of uridine monophosphate (UMP)/cytidine monophosphate (CMP) kinase (EC 2.7.4.4) that forms dCDP, which, upon phosphorylation to dCTP, supports DNA biosynthesis.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: Slightly soluble H ₂ O: 2.75 mg/mL (8.95 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	3.2552 mL	16.276 mL	32.5521 mL
5 mM	0.651 mL	3.2552 mL	6.5104 mL
10 mM	0.3255 mL	1.6276 mL	3.2552 mL
50 mM	0.0651 mL	0.3255 mL	0.651 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

Topalis D, et al. Novel Antiviral C5-Substituted Pyrimidine Acyclic Nucleoside Phosphonates Selected as Human Thymidylate Kinase Substrates[J]. Journal of Medicinal Chemistry, 2011, 54(1):222-32.

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