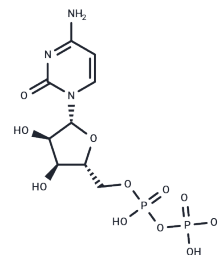


## Cytidine 5'-diphosphate

## Chemical Properties

CAS No. :	63-38-7
Formula:	C <sub>9</sub> H <sub>15</sub> N <sub>3</sub> O <sub>11</sub> P <sub>2</sub>
Molecular Weight:	403.18
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Cytidine 5'-diphosphat (5'-CDP) is synthesized from cytidine monophosphate (CMP) or uridine monophosphate (UMP) by the transfer of phosphoryl group, catalyzed by the enzyme uridylate kinase (UMPK).
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: Slightly soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4803 mL	12.4014 mL	24.8028 mL
5 mM	0.4961 mL	2.4803 mL	4.9606 mL
10 mM	0.248 mL	1.2401 mL	2.4803 mL
50 mM	0.0496 mL	0.248 mL	0.4961 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

Lawrence C C , Bennati M , Obias H V . High-field EPR detection of a disulfide radical anion in the reduction of cytidine 5'-diphosphate by the E441Q R1 mutant of Escherichia coli ribonucleotide reductase[J]. Proceedings of the National Academy of sciences of the United States of America, 1999, 96(16):8979-8984.

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