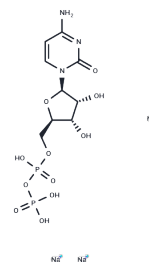


## Cytidine 5'-diphosphate trisodium salt

### Chemical Properties

CAS No. :	34393-59-4
Formula:	C <sub>9</sub> H <sub>15</sub> N <sub>3</sub> Na <sub>3</sub> O <sub>11</sub> P <sub>2</sub>
Molecular Weight:	472.15
Storage:	Powder: -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'-diphosphate trisodium salt (CDP) catalyzes the production of Cytidine triphosphate (CTP) for DNA and RNA synthesis by transferring a phosphoryl group from ATP to cytidine monophosphate (CMP) through the action of uridine monophosphate kinase (UMPCK).
Targets(IC50)	Others,DNA/RNA Synthesis
In vivo	Cytidine 5'-diphosphate trisodium salt-ribitol can be used for the Diagnostics and research of Cytidine 5'-diphosphate trisodium salt-l-ribitol pyrophosphorylase A (CRPPA) muscular dystrophy [2] .

### Solubility Information

Solubility	H <sub>2</sub> O: 245 mg/mL (518.9 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	2.118 mL	10.5899 mL	21.1797 mL
5 mM	0.4236 mL	2.118 mL	4.2359 mL
10 mM	0.2118 mL	1.059 mL	2.118 mL
50 mM	0.0424 mL	0.2118 mL	0.4236 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

- Moffatt BA, et, al. Purine and pyrimidine nucleotide synthesis and metabolism. Arabidopsis Book. 2002;1:e0018.
- Tol W, et, al. Cytidine Diphosphate-Ribitol Analysis for Diagnostics and Treatment Monitoring of Cytidine Diphosphate-l-Ribitol Pyrophosphorylase A Muscular Dystrophy. Clin Chem. 2019 Oct;65(10):1295-1306.
- Salvador-Silva M, et, al. Microglial cells in the retina of Carassius auratus: effects of optic nerve crush. J Comp Neurol. 2000 Feb 21;417(4):431-47.

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