



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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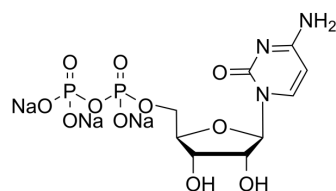
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## Cytidine 5'-diphosphate trisodium salt

<b>Cat. No.:</b>	HY-W008915
<b>CAS No.:</b>	34393-59-4
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>12</sub> N <sub>3</sub> Na <sub>3</sub> O <sub>11</sub> P <sub>2</sub>
<b>Molecular Weight:</b>	469.12
<b>Target:</b>	DNA/RNA Synthesis
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 250 mg/mL (532.91 mM; Need ultrasonic)																					
	DMSO : < 1 mg/mL (ultrasonic;warming;heat to 80°C) (insoluble or slightly soluble)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.1317 mL</td> <td>10.6583 mL</td> <td>21.3165 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4263 mL</td> <td>2.1317 mL</td> <td>4.2633 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2132 mL</td> <td>1.0658 mL</td> <td>2.1317 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.1317 mL	10.6583 mL	21.3165 mL	5 mM	0.4263 mL	2.1317 mL	4.2633 mL	10 mM	0.2132 mL	1.0658 mL	2.1317 mL
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Please refer to the solubility information to select the appropriate solvent.																						
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (213.17 mM); Clear solution; Need ultrasonic																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Cytidine 5'-diphosphate trisodium salt (CDP) is produced by the transfer of phosphoryl group from ATP to cytidine monophosphate (CMP) catalyzed by uridine monophosphate kinase (UMPCK). Cytidine 5'-diphosphate can be used to produce Cytidine triphosphate (CTP) for synthesis of DNA and RNA <sup>[1][2]</sup> .
<b>In Vivo</b>	CDP-ribose can be used for the Diagnostics and research of CDP-ribose pyrophosphorylase A (CRPPA) muscular dystrophy [3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Moffatt BA, et, al. Purine and pyrimidine nucleotide synthesis and metabolism. Arabidopsis Book. 2002;1:e0018.

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[2]. 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.

[3]. 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.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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