



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

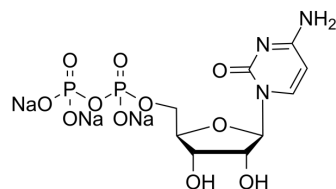
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## 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)			
		Solvent Concentration	Mass	
	<b>Preparing Stock Solutions</b>		1 mg	5 mg
	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
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.

---

[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.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA