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Zuschläge

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

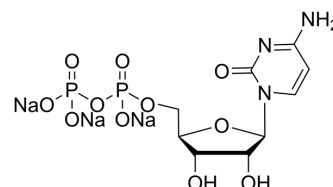
mail@szabo-scandic.com

www.szabo-scandic.com

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

Cytidine 5'-diphosphate trisodium salt

Cat. No.:	HY-W008915
CAS No.:	34393-59-4
Molecular Formula:	C ₉ H ₁₂ N ₃ Na ₃ O ₁₁ P ₂
Molecular Weight:	469.12
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	-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

In Vitro	H ₂ O : 250 mg/mL (532.91 mM; Need ultrasonic)					
	DMSO : < 1 mg/mL (ultrasonic;warming;heat to 80°C) (insoluble or slightly soluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 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.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (213.17 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	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 (UMPK). Cytidine 5'-diphosphate can be used to produce Cytidine triphosphate (CTP) for synthesis of DNA and RNA ^{[1][2]} .
In Vivo	CDP-ribitol can be used for the Diagnostics and research of CDP-l-ribitol 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

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