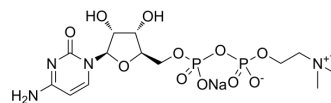


Citicoline sodium

Cat. No.:	HY-B0739A
CAS No.:	33818-15-4
Molecular Formula:	C ₁₄ H ₂₅ N ₄ NaO ₁₁ P ₂
Molecular Weight:	510.31
Target:	Endogenous Metabolite; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : ≥ 100 mg/mL (195.96 mM)					
	DMSO : < 1 mg/mL (insoluble or slightly soluble)					
	* "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.9596 mL	9.7980 mL	19.5959 mL
5 mM			0.3919 mL	1.9596 mL	3.9192 mL	
10 mM			0.1960 mL	0.9798 mL	1.9596 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 (195.96 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Citicoline sodium salt is an intermediate in the synthesis of phosphatidylcholine which is a component of cell membranes and also exerts neuroprotective effects.	
IC ₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite

CUSTOMER VALIDATION

- Nat Neurosci. 2023 Apr;26(4):542-554.

REFERENCES

[1]. Davinelli S, et al. Cytoprotective Effects of Citicoline and Homotaurine against Glutamate and High Glucose Neurotoxicity in Primary Cultured Retinal Cells. *Oxid Med Cell Longev*. 2017;2017:2825703.

[2]. Karpova MN, et al. Increase of the seizure threshold in C57BL/6 mice after citicoline administration. *Bull Exp Biol Med*. 2015 Jan;158(3):315-7.

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

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