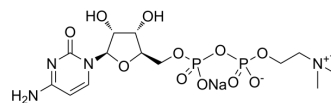


Citicoline sodium

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	<table border="1"> <thead> <tr> <th>Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td></td> <td>1.9596 mL</td> <td>9.7980 mL</td> <td>19.5959 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.3919 mL</td> <td>1.9596 mL</td> <td>3.9192 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.1960 mL</td> <td>0.9798 mL</td> <td>1.9596 mL</td> </tr> </tbody> </table>	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.
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																			
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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