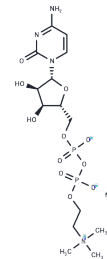


Citicoline sodium

Chemical Properties

CAS No. :	33818-15-4
Formula:	C14H25N4NaO11P2
Molecular Weight:	510.31
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Citicoline sodium (CDP-choline) is an endogenous intermediate in the synthesis of phosphatidylcholine. It also serves as a choline donor in the biosynthesis of the neurotransmitter acetylcholine. Citicoline sodium demonstrates protective effects in cerebral ischemia, traumatic brain injury, and memory disorders. Exogenous administration of citicoline to rodents (500 mg/kg i.p. immediately after ischemia and at 3-h reperfusion) has been shown to stimulate the synthesis of phosphatidylcholine, sphingomyelin, and cardiolipin and to attenuate the release of arachidonic acid and the accumulation of ceramide.
Targets(IC50)	Apoptosis,Caspase,Endogenous Metabolite,ROS

Solubility Information

Solubility	H2O: 200 mg/mL (391.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9596 mL	9.798 mL	19.5959 mL
5 mM	0.3919 mL	1.9596 mL	3.9192 mL
10 mM	0.196 mL	0.9798 mL	1.9596 mL
50 mM	0.0392 mL	0.196 mL	0.3919 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Conant R, Schauss AG. Altern Med Rev. 2004 Mar;9(1):17-31.

Rao AM, et al. Lipid alterations in transient forebrain ischemia: possible new mechanisms of CDP-choline neuroprotection. J Neurochem. 2000 Dec;75(6):2528-35.

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