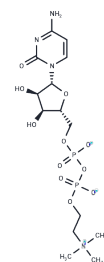


Citicoline sodium (Standard)

Chemical Properties

CAS No. :	33818-15-4
Formula:	C14H25N4NaO11P2
Molecular Weight:	510.31
Storage:	Store at -80°C Actual storage temperature shall be subject to the COA.



Biological Description

Description	Citicoline sodium (Standard) is the standard substance of Citicoline sodium, and it is applicable for quantitative analysis, quality control, and related research in biochemical experiments. 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, Reactive Oxygen Species, Caspase, Endogenous Metabolite

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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