Citicoline (sodium salt)

Item No. 14629

CAS Registry No.: 33818-15-4
Formal Name: P’-[2-(trimethylammonio)ethyl] ester-cytidine 5’-(trihydrogen diphosphate)-inner, monosodium salt
Synonyms: Cytidine 5’-diphosphocholine, Flusorex, Gerolin, Logan, Neurotron, Sinkron
MF: C14H25N4O11P2 • Na
FW: 510.3
Purity: ≥95%
UV/Vis.: λmax: 274 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Citicoline (sodium salt) is supplied as a crystalline solid. Aqueous solutions of citicoline (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of citicoline (sodium salt) in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Citicoline is an endogenous intermediate in the synthesis of phosphatidylcholine, the major phospholipid in eukaryotic cells. It also serves as a choline donor in the biosynthesis of the neurotransmitter acetylcholine. Citicholine demonstrates protective effects in cerebral ischemia, traumatic brain injury, and memory disorders. Exogenous administration of citicholine 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.

References