

Choline (acetate)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Choline is a vital nutrient essential for maintaining liver, neurological, hematological, and skeletal muscle balance. It serves as a precursor in the biosynthesis of membrane phospholipids, like phosphatidylcholine, which aid in cell signaling and membrane transport, and is also a precursor to the neurotransmitter acetylcholine. Choline is crucial for hepatic lipid transport. In animal studies, perinatal administration of choline (18.8 mg/kg) has been shown to enhance cognitive function impaired by prenatal alcohol exposure in rats. Additionally, choline (13 mg/animal per day) improves motor coordination and addresses behavioral issues in a mouse model of Rett syndrome, and mitigates recognition memory deficits caused by early-life iron deficiency in rats when provided in drinking water at 5 ppm. Low choline intake is linked to muscle wasting, and dietary choline (1,000 mg/kg) boosts leg and breast muscle protein content in broiler chickens.
Targets(IC50)	Others

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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