

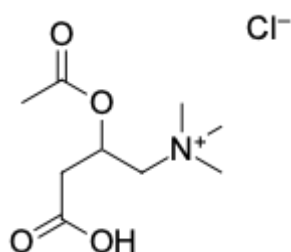
(C2) Acetylcarnitine

<http://www.lumiprobe.com/p/acetylcarnitine>

Acetylcarnitine is an ester of the amino acid carnitine with an acetyl group, the first representative of short-chain acyl-carnitines.

The product is used primarily as a control for MS/MS.

Acetyl-L-carnitine, like other carnitines, is involved in the transport of fatty acids into mitochondria for β -oxidation and energy production. Acetylcarnitine easily penetrates the blood-brain barrier (BBB) and has an effect on the central nervous system (CNS), is used as a neuroprotector, a neurotrophic drug, and has a cholinomimetic effect. It is also a key molecule in the study of aging and related metabolic processes, due to its involvement in lipid metabolism and the production of acetyl-CoA, a central metabolite in many biosynthetic and energy pathways.



Structure of (C2) Acetylcarnitine

General properties

Appearance: white solid

Molecular weight: 239.70

CAS number: 14992-62-2 (inner salt); 5080-50-2 (hydrochloride)

Molecular formula: $C_9H_{18}ClNO_4$

Solubility: DMF, DMSO, ethanol

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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