

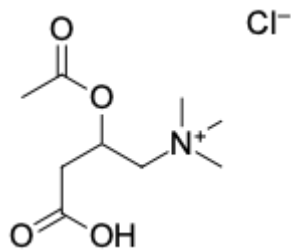
## (C2) Acetylcarnitine

<http://hk.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  $\beta$ -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.



外观: 白色固體

分子量: 239.70

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

分子式:  $C_9H_{18}ClNO_4$

溶解度: 水、二甲基亞砜

质量控制: NMR  $^1H$  和 HPLC-MS (95+%)

储存条件: 收到後  $-20^{\circ}C$  避光保存 24 個月。運輸: 室溫最多可保存3週。乾燥。

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