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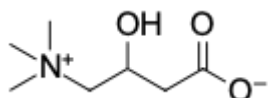
## (C0) Carnitine

<http://www.lumiprobe.com/p/l-carnitine>

Carnitine is actively involved in metabolism, providing  $\beta$ -oxidation of fatty acids in mitochondria. Thanks to its pronounced antioxidant activity, it protects cellular organelles and DNA from hydroxyl and other radicals, and enhances cell proliferation.

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

In animal experiments, the neuroprotective function of carnitine has been proven, as well as the ability of carnitine to act as a neuromodulator, increasing the levels of dopamine, adrenaline and serotonin. Carnitine and its derivatives are determined in the study of aging processes, which carnitine prevents.



**Structure of (C0) Carnitine**

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### General properties

Appearance: white powder

Molecular weight: 161.20

CAS number: 541-15-1

Molecular formula:  $C_7H_{15}NO_3$

Solubility: in water

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.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.