

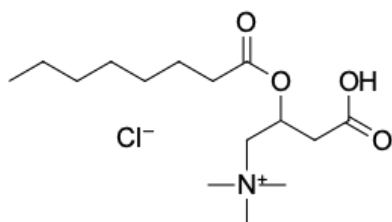
## (C8) Octanoylcarnitine

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

Octanoylcarnitine, like other acylcarnitines, is an important intermediate in lipid metabolism, necessary for the transport of fatty acids into mitochondria for  $\beta$ -oxidation and ATP production, as well as for the removal of excess short-chain fatty acids. The level of octanoylcarnitine in biological fluids is a diagnostic sign of fatty acid metabolism disorders.

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

Octanoylcarnitine chloride interferes with the activity of acetyl-CoA carboxylase, an enzyme that catalyzes the conversion of acetyl-CoA to malonyl-CoA. This transformation is a key regulatory step in the process of fatty acid oxidation.



**Structure of (C8) Octanoylcarnitine**

### General properties

Appearance: white solid

Molecular weight: 323.86

CAS number: 54377-02-5

Molecular formula:  $C_{15}H_{30}ClNO_4$

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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