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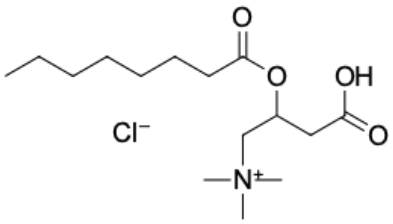
(C8) Octanoylcarnitine

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 β-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 receival at -20°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.