

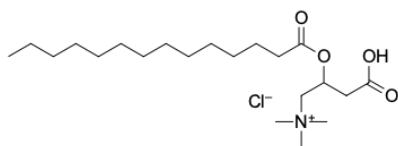
(C14) Tetradecanoylcarnitine

<http://www.lumiprobe.com/p/tetradecanoylcarnitine-25597-07-3>

Myristoyl-L-carnitine is a naturally occurring long-chain acylcarnitine involved in the beta-oxidation of long-chain fatty acids. Myristoyl-L-carnitine may be used as an analytical standard for high-performance liquid chromatography or LC MS/MS studies.

Myristoyl-L-carnitine may be useful as a marker in the diagnosis of genetic metabolic disorders and is a potential marker for very-long-chain coenzyme A dehydrogenase deficiency (VLCADD). Plasma levels of myristoyl-L-carnitine are decreased in patients with chronic fatigue syndrome and increased in patients with end-stage renal disease.

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



Structure of (C14) Tetradecanoylcarnitine

General properties

Appearance: white solid

Molecular weight: 408.02

CAS number: 25597-07-3

Molecular formula: C₂₁H₄₂ClNO₄

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

Storage conditions: 24 months after receipt 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.