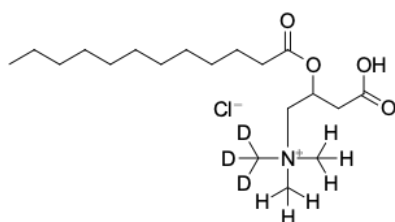


(C12) Dodecanoyl-L-carnitine-d3

<http://www.lumiprobe.com/p/dodecanoyl-l-carnitine-d3>

Lauroyl-L-carnitine-d3 (chloride) is a deuterium labeled Lauroyl-L-carnitine and used as an internal standard utilized in the measurement of lauroyl-L-carnitine through GC- or LC-MS methods. Lauroyl-L-carnitine, classified as an acylcarnitine, acts as a quaternary ammonium-based cationic surfactant.

Lauroyl-L-carnitine, classified as acylcarnitine, acts as a quaternary ammonium-based cationic surfactant. It can be used as one of the markers for very long-chain (in ratio to tetradecanoylcarnitine) VLCADD or medium-chain (in ratio to octanoyl-L-carnitine) MCADD with acyl-CoA dehydrogenase deficiency. According to studies may be elevated in cardiovascular disease risk and type 2 diabetes.



Structure of (C12) Dodecanoyl-L-carnitine-d3

General properties

Appearance: white solid

Molecular weight: 382.98

CAS number: 2687960-76-3

Molecular formula: $C_{19}H_{35}D_3ClNO_4$

Solubility: DMSO, DMF, ethanol

Quality control: NMR 1H and HPLC-MS (95+ %, D: 98+ %)

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.