

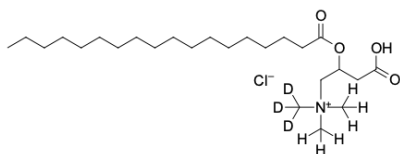
(C18) Octadecanoyl-L-carnitine-d3

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

(C18) Octadecanoyl-L-carnitine-d3 chloride is a deuterated derivative of stearyl-L-carnitine. The reagent is intended for use as an internal standard for the quantification of stearyl-L-carnitine by GC- or LC-MS.

In addition, (C18) Octadecanoyl-L-carnitine d3 chloride, is suitable for the determination of (C18:1) Oleoyl-L-carnitine, (C18:2) Linoleoyl-L-carnitine, (C18:1OH) 3-hydroxyoleoylcarnitine, (C18:2OH) 3-hydroxylinoleoylcarnitine.

These acylcarnitines are biomarkers in the diagnosis of metabolic disorders such as carnitine palmitoyltransferase deficiency type I, type II, carnitine-acylcarnitine translocase (CACT) deficiency, Long-chain 3-hydroxyacyl-CoA dehydrogenase (LCHAD) deficiency, glutaric acidemia type II.



Structure of (C18) Octadecanoyl-L-carnitine-d3

General properties

- Appearance: white solid
- Molecular weight: 467.14
- CAS number: 2245711-27-5
- Molecular formula: $C_{25}H_{47}D_3ClNO_4$
- Solubility: DMF, DMSO, 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.