

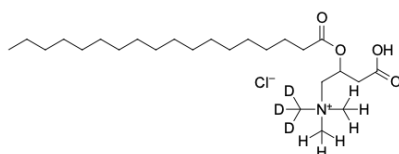
## (C18) Octadecanoyl-L-carnitine-d3

<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<sub>25</sub>H<sub>47</sub>D<sub>3</sub>ClNO<sub>4</sub>

Solubility: DMF, DMSO, ethanol

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

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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