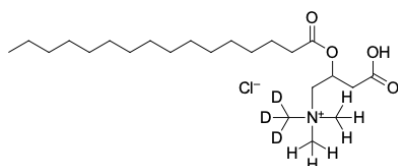


## (C16) Hexadecanoyl-L-carnitine-d3

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

(C16) Hexadecanoyl-L-carnitine d3 is a deuterated ester of L-carnitine and palmitic acid, intended for use as an internal standard for the quantification of palmitoyl-L-carnitine by GC- or LC-MS.

Also hexadecanoyl-L-carnitine d3(C16) can be used to determine hexadecenoylcarnitine(C16:1), 3-hydroxyhexadecanoylcarnitine (C16OH). These biochemical markers can be used for diagnosis in metabolic diseases: carnitine palmitoyltransferase deficiency type I, type II, carnitine-acylcarnitine translocase (CACT) deficiency. As an auxiliary marker: long-chain 3-hydroxyacyl-CoA dehydrogenase (LCHAD) deficiency, in deficiency of mitochondrial trifunctional protein, propionic and methylmalonic aciduria.



**Structure of Hexadecanoyl-L-carnitine-d3**

### General properties

Appearance: white solid

Molecular weight: 439.09

CAS number: 1334532-26-1

Molecular formula:  $C_{23}H_{43}D_3ClNO_4$

Solubility: DMF, DMSO, ethanol

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

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

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