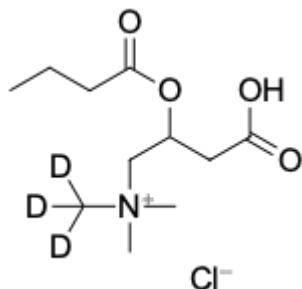


## (C4) Butyryl-L-carnitine-(N-methyl-d3)

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

Butyryl-L-carnitine-(N-methyl-d3) chloride is one of carnitine stable isotopes, a deuterated butyrate ester of carnitine, or C4 Carnitine-d3, in which three hydrogens are replaced with deuterium (d3). It is used for the quantification of acylcarnitines by gas chromatography-mass spectrometry (GC-MS) or liquid chromatography tandem mass spectrometry (LC-MS) with isotope labeling strategy.



**Structure of Butyryl-L-carnitine-(N-methyl-d3)**

### General properties

Appearance: off-white solid

Molecular weight: 270.77

CAS number: 1334532-21-6

Molecular formula:  $C_{11}H_{19}D_3ClNO_4$

IUPAC name: 3-carboxy-N,N-dimethyl-N-(methyl-d3)-2R-(1-oxobutoxy)-1-propanaminium, monochloride

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: Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.