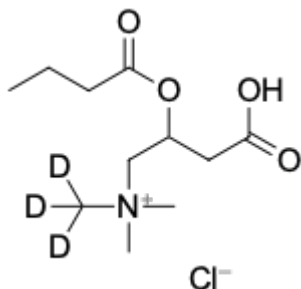


(C4) Butyryl-L-carnitine-(N-methyl-d3)

<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.

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