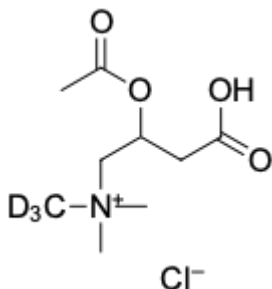


## (C2) Acetyl-L-carnitine-(N-methyl-d3)

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

Acetyl-L-carnitine-(N-methyl-d3) chloride, also referred to as Acetyl L-carnitine hydrochloride, or C2 Carnitine-d3, is a labeled form of a straight-chain L-carnitine derivative. Acetyl ester of L-carnitine comprises an N-methyl group, in which three hydrogens are replaced with deuterium (d3). Isotopically labeled d3-acetylcarnitine (acetylated d3-carnitine) is used for MS imaging and quantitative measurements using liquid chromatography tandem mass spectrometry (LC-MS).



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

### General properties

Appearance: off-white solid

Molecular weight: 242.72

CAS number: 1334532-17-0

Molecular formula: C<sub>9</sub>H<sub>15</sub>D<sub>3</sub>ClNO<sub>4</sub>

IUPAC name: (R)-3-Acetoxy-4-(trimethylammonio)butyrate Hydrochloride

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.

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.