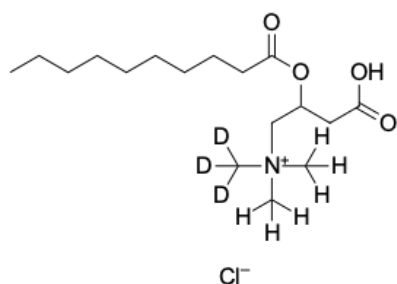


(C10) Decanoyl-L-carnitine-d3

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

Decanoylcarnitine is a saturated medium-chain acylcarnitine that is used as a marker for fatty acid oxidation disorders, medium-chain acyl-CoA dehydrogenase (MCAD) deficiency, especially in newborns, glutaric acidemia type II, and celiac disease. Decanoylcarnitine serves as an additional marker, either alone or in ratio, for the diagnosis of medium-chain acyl-CoA dehydrogenase deficiency.

Decanoyl-L-carnitine-d3 can be used as an internal standard for the quantification of decanoylcarnitine, decenoylcarnitine, decadienoylcarnitine using GC- or LC-MS methods.



Structure of (C10) Decanoyl-L-carnitine-d3

General properties

Appearance: white solid

Molecular weight: 354.93

CAS number: 2483831-87-2

Molecular formula: $C_{17}H_{31}D_3ClNO_4$

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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