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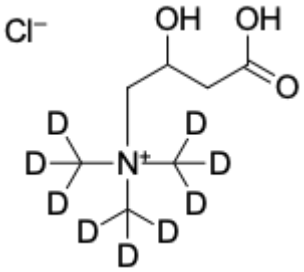
(C0) L-Carnitine-d9

http://www.lumiprobe.com/p/l-carnitine-trimethyl-d9

Carnitine plays an important role in metabolism in mammals, plants and some bacteria. L-carnitine is involved in fatty acid metabolism, transporting fatty acid chains into the mitochondrial matrix, allowing cells to obtain energy. When using deuterated L-carnitine-d9 as a standard for LC MS/MS, it is possible to determine the content of free carnitine in most biological fluids.

Carnitine and its derivatives are a diagnostic sign of disorders of β-oxidation of fatty acids. Isotopically labeled L-Carnitine-d9 is used to determine free carnitine in disease screening, for example: systemic carnitine deficiency, carnitine palmitoyl transferase deficiency.



Structure of (C0) L-Carnitine-d9

General properties

Appearance:	white solid
Molecular weight:	206.72
CAS number:	126827-79-0, 2687961-04-0 (chloride)
Solubility:	DMF, DMSO, ethanol
Quality control:	NMR ^{1}H and HPLC-MS (95+ %, D: 98+ %)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.