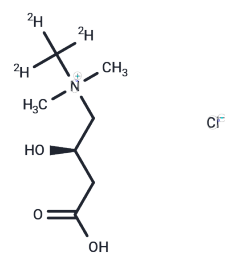


L-Carnitine-D3 Chloride

Chemical Properties

CAS No. :	350818-62-1
Formula:	C7H13D3ClNO3
Molecular Weight:	200.68
Storage:	Keep away from moisture, Store under nitrogen, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	L-Carnitine-D3 Chloride is the deuterated form of L-Carnitine Chloride (TMIM-00025), used as an internal standard for detecting total carnitine in raw materials. L-Carnitine (L (-)-Carnitine) is an endogenous human molecule involved in fatty acid metabolism.
Targets(IC50)	Reactive Oxygen Species, ROS

Solubility Information

Solubility	H2O: 160 mg/mL (797.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9831 mL	24.9153 mL	49.8306 mL
5 mM	0.9966 mL	4.9831 mL	9.9661 mL
10 mM	0.4983 mL	2.4915 mL	4.9831 mL
50 mM	0.0997 mL	0.4983 mL	0.9966 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nadaoka I, et al. Quantitative determination of total L-carnitine in infant formula, follow-up formula, and raw materials by liquid chromatography with tandem mass spectrometry. Anal Sci. 2014;30(8):839-44.

Zheng H, et al. Simultaneous determination of free and total choline and l-carnitine in infant formula using hydrophilic interaction liquid chromatography with tandem mass spectrometry. J Sep Sci. 2018 Aug;41(16):3176-3185.

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