

Product Data Sheet

Product Name: Decanoyl-L-carnitine-d9 (chloride)

Cat. No.: GC91973

Chemical Properties

Cas. No. 2847775-92-0

Chemical Name 3-carboxy-N,N,N-tri(methyl-d3)-2-[(1-oxodecyl)oxy]-1-propanaminium, monochloride

SMILES CCCCCCCCC(OC[C@H](CC(O)=O)C[N+](C([2H])([2H])[2H])(C([2H])([2H])[2H])C([2H])([2H])[2H])=O.[Cl-]

Formula $C_{17}H_{25}D_9NO_4 \cdot Cl$

M.Wt 361

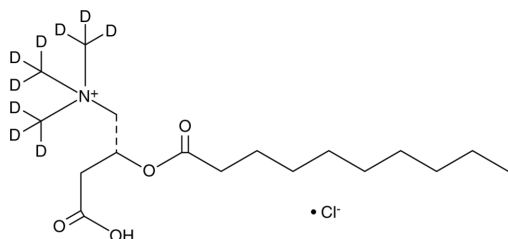
Solubility DMSO: Sparingly soluble: 1-10 mg/ml, Ethanol: Sparingly soluble: 1-10 mg/ml, PBS (pH 7.2): Sparingly soluble: 1-10 mg/ml

Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Decanoyl-L-carnitine-d₉ is intended for use as an internal standard for the quantification of decanoyl-L-carnitine by GC- or LC-MS. Decanoyl-L-carnitine is an ester derivative of L-carnitine. It increases the formation of C₂₄ fatty acid intermediates, as well as docosapentaenoic and docosahexaenoic acid in rat hepatocytes.¹

References:

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Tran, T.N., Retterstøl, K., and Christophersen, B.O. Differences in the conversion of the polyunsaturated fatty acids [1-¹⁴C]22:4(n-6) and [1-¹⁴C]22:5(n-3) to [1-¹⁴C]22:5(n-6) and [1-¹⁴C]22:6(n-3) in isolated rat hepatocytes. *Biochim. Biophys. Acta* 1532(1-2):137-147(2001).

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