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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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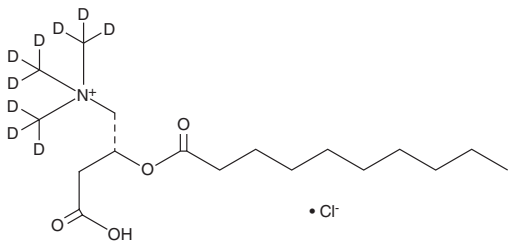
PRODUCT INFORMATION

Decanoyl-L-carnitine-d_9 (chloride)

Item No. 40352

CAS Registry No.: 2847775-92-0
Formal Name: 3-carboxy-N,N,N-tri(methyl-d_3)-2-[(1-oxodecyl)oxy]-1-propanaminium, monochloride
Synonyms: CAR 10:0-d_9, C10:0 Carnitine-d_9, L-Carnitine decanoyl ester-d_9, L-Decanoylcarnitine-d_9, (–)-Decanoylcarnitine-d_9
MF: $C_{17}H_{25}D_9NO_4$ • Cl
FW: 361.0
Chemical Purity: ≥98% (Decanoyl-L-carnitine (chloride))
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_9); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Decanoyl-L-carnitine-d_9 (chloride) is intended for use as an internal standard for the quantification of decanoyl-L-carnitine (Item Nos. 26549 | 26909) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Decanoyl-L-carnitine-d_9 (chloride) is supplied as a solid. A stock solution may be made by dissolving the decanoyl-L-carnitine-d_9 (chloride) in the solvent of choice, which should be purged with an inert gas. Decanoyl-L-carnitine-d_9 (chloride) is sparingly soluble (1-10 mg/ml) in ethanol and DMSO.

Description

Decanoyl-L-carnitine is an ester derivative of L-carnitine (Item No. 21489). It increases the formation of C24 fatty acid intermediates, as well as docosapentaenoic and docosahexaenoic acid (Item No. 90310) in rat hepatocytes.[1]

Reference

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

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