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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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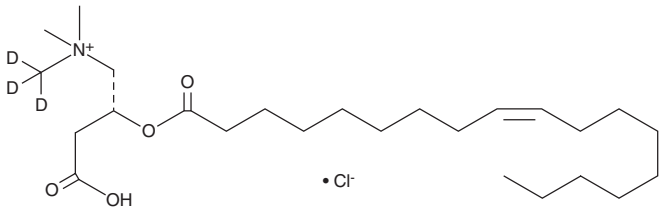
PRODUCT INFORMATION

Oleoyl-L-carnitine-d_3 (chloride)

Item No. 26578

Formal Name: (R)-3-carboxy-N,N-dimethyl-N-(methyl-d_3)-2-(oleoyloxy)propan-1-aminium, monochloride
Synonyms: C18:1 Carnitine-d_3, L-Oleoylcarnitine-d_3
MF: $C_{25}H_{45}D_3NO_4 \bullet Cl$
FW: 465.1
Chemical Purity: ≥85% (Oleoyl-L-carnitine)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤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

Oleoyl-L-carnitine-d_3 (chloride) is intended for use as an internal standard for the quantification of oleoyl-L-carnitine 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).

Oleoyl-L-carnitine-d_3 (chloride) is supplied as a solid. A stock solution may be made by dissolving the oleoyl-L-carnitine-d_3 (chloride) in the solvent of choice. Oleoyl-L-carnitine-d_3 (chloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of oleoyl-L-carnitine-d_3 (chloride) in ethanol and DMF is approximately 20 mg/ml and approximately 14 mg/ml in DMSO.

Description

Oleoyl-L-carnitine is a naturally occurring long-chain acylcarnitine.[1] It inhibits lecithin:cholesterol acyltransferase (LCAT) activity in isolated rat, but not human, plasma by 32% when used at a concentration of 500 µM.

Reference

1. Bell, F.P. Carnitine esters: Novel inhibitors of plasma lecithin: Cholesterol acyltransferase in experimental animals but not in man (*Homo sapiens*). *Int. J. Biochem.* **15(2)**, 133-136 (1983).

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