



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## Decanoyl-L-carnitine-d<sub>3</sub> (chloride)

Item No. 26568

**Formal Name:** (R)-3-carboxy-2-(decanoyloxy)-N,N-dimethyl-N-(methyl-d<sub>3</sub>)propan-1-aminium, monochloride

**Synonyms:** C10 Carnitine-d<sub>3</sub>, (-)-Decanoylcarnitine-d<sub>3</sub>, L-Decanoylcarnitine-d<sub>3</sub>

**MF:** C<sub>17</sub>H<sub>31</sub>D<sub>3</sub>NO<sub>4</sub> • Cl

**FW:** 354.9

**Chemical Purity:** ≥98% (Decanoyl-L-carnitine)

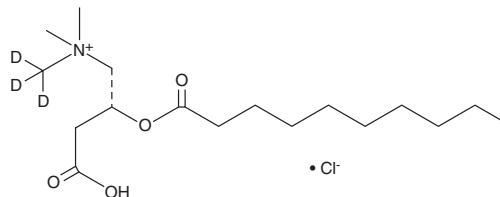
**Deuterium**

**Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>3</sub>); ≤1% d<sub>0</sub>

**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<sub>3</sub> (chloride) is intended for use as an internal standard for the quantification of decanoyl-L-carnitine (Item No. 26549) 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<sub>3</sub> (chloride) is supplied as a solid. A stock solution may be made by dissolving the decanoyl-L-carnitine-d<sub>3</sub> (chloride) in the solvent of choice. Decanoyl-L-carnitine-d<sub>3</sub> (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 decanoyl-L-carnitine-d<sub>3</sub> (chloride) in ethanol and DMF is approximately 20 mg/ml and 10 mg/ml in DMSO.

### Description

Decanoyl-L-carnitine increases the formation of C24 fatty acid intermediates, as well as docosapentaenoic and docosahexaenoic acid (Item No. 90310), in rat hepatocytes.<sup>1</sup>

### Reference

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

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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