



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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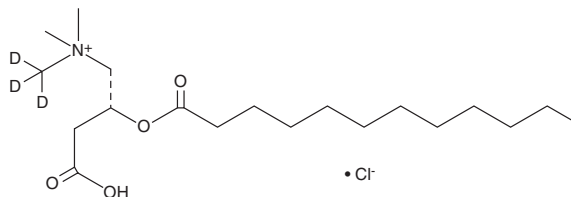
# PRODUCT INFORMATION



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

Item No. 26571

<b>Formal Name:</b>	(R)-3-carboxy-2-(dodecanoyloxy)-N,N-dimethyl-N-(methyl-d <sub>3</sub> )propan-1-aminium, monochloride
<b>Synonym:</b>	L-Lauroylcarnitine-d <sub>3</sub>
<b>MF:</b>	C <sub>19</sub> H <sub>35</sub> D <sub>3</sub> NO <sub>4</sub> • Cl
<b>FW:</b>	383.0
<b>Chemical Purity:</b>	≥98% (Lauroyl-L-carnitine)
<b>Deuterium Incorporation:</b>	≥99% deuterated forms (d <sub>1</sub> -d <sub>3</sub> ); ≤1% d <sub>0</sub>
<b>Supplied as:</b>	A solid
<b>Storage:</b>	-20°C
<b>Stability:</b>	≥2 years



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

### Laboratory Procedures

Lauroyl-L-carnitine-d<sub>3</sub> (chloride) is intended for use as an internal standard for the quantification of lauroyl-L-carnitine (Item No. 26550) 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).

Lauroyl-L-carnitine-d<sub>3</sub> (chloride) is supplied as a solid. A stock solution may be made by dissolving the lauroyl-L-carnitine-d<sub>3</sub> (chloride) in the solvent of choice. Lauroyl-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 lauroyl-L-carnitine-d<sub>3</sub> (chloride) in DMSO is approximately 10 mg/ml and approximately 20 mg/ml in ethanol and DMF.

### Description

Lauroyl-L-carnitine is an acylcarnitine and a surfactant.<sup>1</sup> It has been used to permeabilize porcine enterocytes for delivery of the polar fluorescent probe lucifer yellow (Item No. 25573).

### Reference

1. Danielsen, E.M. and Hansen, G.H. Intestinal surfactant permeation enhancers and their interaction with enterocyte cell membranes in a mucosal explant system. *Tissue Barriers* 5(3), e1361900 (2017).

#### 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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