



# SZABO SCANDIC

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## Produktinformation



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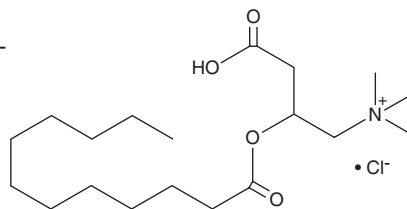
# PRODUCT INFORMATION



## Lauroyl-DL-Carnitine

Item No. 16006

**CAS Registry No.:** 14919-37-0  
**Formal Name:** 3-carboxy-N,N,N-trimethyl-2-[(1-oxododecyl)oxy]-1-propanaminium, monochloride  
**Synonym:** DL-Lauroylcarnitine  
**MF:** C<sub>19</sub>H<sub>38</sub>NO<sub>4</sub> • Cl  
**FW:** 380.0  
**Purity:** ≥95%  
**Supplied as:** A crystalline 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

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

Lauroyl-DL-carnitine (chloride) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

### Description

Lauroyl-DL-carnitine is a zwitterionic, long-chain acylcarnitine used to improve *in vivo* absorption of certain hydrophilic compounds, especially through mucosal membranes.<sup>1-3</sup>

### References

1. Lecluyse, E.L., Sutton, S.C., and Fix, J.A. *In vitro* effects of long-chain acylcarnitines on the permeability, transepithelial electrical resistance and morphology of rat colonic mucosa. *J. Pharmacol. Exp. Ther.* **265**(2), 955-962 (1993).
2. Hayashi, M., Sakai, T., Hasegawa, Y., *et al.* Physiological mechanism for enhancement of paracellular drug transport. *J. Control. Release* **62**(1-2), 141-148 (1999).
3. Kagatani, S., Inaba, N., Fukui, M., *et al.* Nasal absorption kinetics of human growth hormone enhanced by acylcarnitines in rats. *Int. J. Pharm.* **169**, 245-253 (1997).

#### 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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