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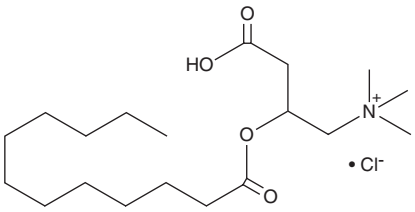
PRODUCT INFORMATION

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: $C_{19}H_{38}NO_4 \bullet Cl$
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.[1-3]

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).

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