DL-Lauroylcarnitine (chloride)

Item No. 16006

CAS Registry No.: 14919-37-0
Formal Name: 3-carboxy-N,N,N-trimethyl-2-[(1-oxododecyl)oxy]-1-propanaminium, monochloride
MF: C_{19}H_{38}NO_{4} • Cl
FW: 380.0
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that DL-lauroylcarnitine (chloride) be stored as supplied at -20°C. It should be stable for at least two years.

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

DL-Lauroylcarnitine (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.

DL-Lauroylcarnitine (chloride) is a zwitterionic, long-chain acylcarnitine used to improve in vivo absorption of certain hydrophilic compounds, especially through mucosal membranes.1-3

References

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