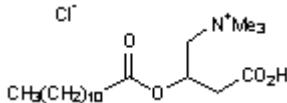


Certificate of Analysiswww.tocris.com**Product Name:** (±)-Lauroylcarnitine chloride**Catalog No.:** 0548**Batch No.:** 1

CAS Number: 7023-03-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₃₈NO₄Cl
Batch Molecular Weight: 379.97
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:

**2. ANALYTICAL DATA**

TLC: R_f = 0.5 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen
Theoretical 60.06 10.08 3.68
Found 60.16 10.31 3.65

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

www.tocris.com**Product Name:** (±)-Lauroylcarnitine chloride**Catalog No.:** 0548**Batch No.:** 1

CAS Number: 7023-03-2

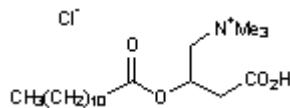
Description:

Homolog of acetylcarnitine chloride (Cat. No. 0355). Acylcarnitines are important intermediates in lipid metabolism.

Physical and Chemical Properties:Batch Molecular Formula: C₁₉H₃₈NO₄Cl

Batch Molecular Weight: 379.97

Physical Appearance: White solid

Minimum Purity: >98%**Batch Molecular Structure:****Storage:** Desiccate at RT**Solubility & Usage Info:**

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Poorthuis et al (1993) Determination of acylcarnitines in urine of patients with inborn errors of metabolism using HPLC after derivatization with 4'-bromophenacyl bromide. *Clin.Chim.Acta* **216** 53. PMID: 8222273.

Coates and Tanaka (1992) Molecular basis of mitochondrial fatty acid oxidation defects. *J.Lipid.Res.* **33** 1099. PMID: 1431593.

Chalmers et al (1984) Urinary excretion of *l*-carnitine and acylcarnitines by patients with disorders of organic acid metabolism: evidence for secondary insufficiency of *l*-carnitine. *Pediatr.Res.* **18** 1325. PMID: 6441143.

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