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TOCRIS

Print Date: Jun 9th 2025

Certificate of Analysis

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Product Name: **(±)-Octanoylcarnitine chloride** **Catalog No.: 0605** **Batch No.: 3**

CAS Number: 14919-35-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{30}ClNO_4$

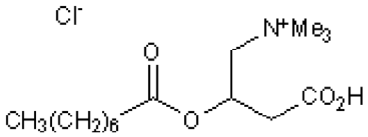
Batch Molecular Weight: 323.86

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.63	9.34	4.33
Found	54.87	9.49	4.24

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

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Product Name: **(±)-Octanoylcarnitine chloride** **Catalog No.: 0605** **Batch No.: 3**

CAS Number: 14919-35-8

Description:

(±)-Octanoylcarnitine chloride is a homolog of acetylcarnitine chloride (Cat. No. 0355). Acylcarnitines are important intermediates in lipid metabolism.

Physical and Chemical Properties:

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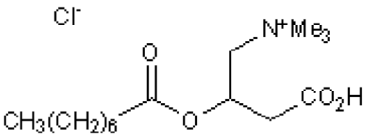
Batch Molecular Weight: 323.86

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
DMSO 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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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