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Certificate of Analysis

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Product Name:(±)-Propionylcarnitine chlorideCAS Number:18828-58-5

Catalog No.: 0611 Batch No.: 4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₁₀H₂₀CINO₄ 253.73 White solid water to 100 mM Store at -20°C

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2. ANALYTICAL DATA

TLC: Melting Point: HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

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

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Batch No.: 4

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Product Name: (±)-Propionylcarnitine chloride

CAS Number:

18828-58-5

Description:

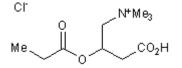
Homolog of acetylcarnitine chloride (Cat. No. 0355). Acylcarnitines are important intermediates in lipid metabolism.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₂₀ClNO₄ Batch Molecular Weight: 253.73 Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

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).

Catalog No.: 0611

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:

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

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

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