

Certificate of Analysis

www.tocris.com

Product Name: (±)-Palmitoylcarnitine chloride

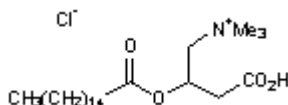
Catalog No.: 0609

Batch No.: 1

CAS Number: 6865-14-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₄₆ClNO₄
Batch Molecular Weight: 436.05
Physical Appearance: White solid
Solubility: water to 25 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Between 186 - 188°C
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.35	10.63	3.21
Found	62.98	10.59	3.19

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

Product Name: (±)-Palmitoylcarnitine chloride

Catalog No.: 0609

Batch No.: 1

CAS Number: 6865-14-1

Description:

Intermediate in mitochondrial fatty acid oxidation. Has a wide range of biological actions including the inhibition of protein kinase C and cell membrane disruption.

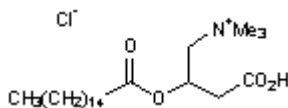
Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₄₆ClNO₄

Batch Molecular Weight: 436.05

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 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:

Nakadate and Blumberg (1987) Modulation by palmitoylcarnitine of protein kinase C activation. *Cancer Res.* **47** 6537. PMID: 3479247.

Criddle et al (1990) The effects of novel vasodilator long chain acyl carnitine esters in the isolated perfused heart of the rat. *Br.J.Pharmacol.* **99** 477. PMID: 1691947.

Dainty et al (1990) Interactions of palmitoyl carnitine with the endothelium in rat aorta. *Br.J.Pharmacol.* **100** 241. PMID: 1696151.

Requero et al (1995) The membrane-perturbing properties of palmitoyl-coenzyme A and palmitoylcarnitine. A comparative study. *Biochemistry* **34** 10400. PMID: 7654694.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956