



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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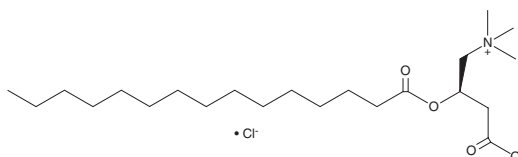
# PRODUCT INFORMATION



## Pentadecanoyl-L-carnitine (chloride)

Item No. 37677

**CAS Registry No.:** 173686-57-2  
**Formal Name:** (R)-3-carboxy-N,N,N-trimethyl-2-[(1-oxopentadecyl)oxy]-1-propanaminium, monochloride  
**Synonyms:** CAR 15:0, C15:0 Carnitine, L-Carnitine pentadecanoyl ester, L-Pentadecanoylcarnitine  
**MF:** C<sub>22</sub>H<sub>44</sub>NO<sub>4</sub> • Cl  
**FW:** 422.0  
**Purity:** ≥98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Pentadecanoyl-L-carnitine (chloride) is supplied as a solid. A stock solution may be made by dissolving the pentadecanoyl-L-carnitine (chloride) in the solvent of choice, which should be purged with an inert gas. Pentadecanoyl-L-carnitine (chloride) is slightly soluble in DMSO.

### Description

Pentadecanoyl-L-carnitine is a cannabinoid (CB) receptor agonist ( $EC_{50}$ s = 3.7 and 3.2  $\mu$ M for CB<sub>1</sub> and CB<sub>2</sub> receptors, respectively, in a cAMP modulation assay).<sup>1</sup> It is also an agonist at the serotonin (5-HT) receptor subtypes 5-HT<sub>1A</sub> and 5-HT<sub>1B</sub> ( $EC_{50}$ s = 9.6 and 9.3  $\mu$ M, respectively) and an antagonist at histamine H<sub>1</sub> and H<sub>2</sub> receptors ( $EC_{50}$ s = 10.9 and 6.1  $\mu$ M, respectively). Pentadecanoyl-L-carnitine inhibits T cell proliferation in an SAg primary human cell system and reduces chemokine (C-C) motif ligand 2 (CCL2) levels in an Mphg primary human cell system.

### Reference

1. Venn-Watson, S., Reiner, J., and Jensen, E.D. Pentadecanoylcarnitine is a newly discovered endocannabinoid with pleiotropic activities relevant to supporting physical and mental health. *Sci. Rep.* **12(1)**, 13717 (2022).

**WARNING**  
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**  
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

**WARRANTY AND LIMITATION OF REMEDY**  
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