



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

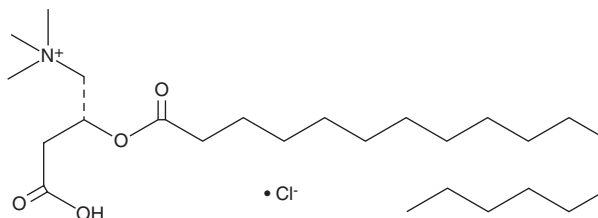
# PRODUCT INFORMATION



## Stearoyl-L-carnitine (chloride)

Item No. 26556

**CAS Registry No.:** 32350-57-5  
**Formal Name:** 3-carboxy-N,N,N-trimethyl-2R-[(1-oxooctadecyl)oxy]-1-propanaminium, monochloride  
**Synonyms:** C18 Carnitine, Octadecanoyl-L-carnitine, R-Stearoyl carnitine  
**MF:** C<sub>25</sub>H<sub>50</sub>NO<sub>4</sub> • Cl  
**FW:** 464.1  
**Purity:** ≥95%  
**Supplied as:** A crystalline 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

Stearoyl-L-carnitine (chloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the stearoyl-L-carnitine (chloride) in the solvent of choice. Stearoyl-L-carnitine (chloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of stearoyl-L-carnitine (chloride) in ethanol and DMF is approximately 20 mg/ml and approximately 14 mg/ml in DMSO.

### Description

Stearoyl-L-carnitine is a naturally occurring long-chain acylcarnitine.<sup>1</sup> It inhibits sodium-dependent [<sup>3</sup>H]carnitine uptake in human proximal convoluted tubular (HPCT) cells by 52% when used at a concentration of 500 μM.<sup>2</sup> It also inhibits lecithin:cholesterol acyltransferase activity in rat, but not human, plasma when used at a concentration of 500 μM/ml of plasma.<sup>3</sup> Plasma levels of stearoyl-L-carnitine are decreased in patients with chronic fatigue syndrome and increased in patients with end-stage renal disease.<sup>1,4</sup>

### References

1. Reuter, S.E., Evans, A.M., Faull, R.J., *et al.* Impact of haemodialysis on individual endogenous plasma acylcarnitine concentrations in end-stage renal disease. *Ann. Clin. Biochem.* **42**(Pt 5), 387-393 (2005).
2. Huang, W., Shaikh, S.N., Ganapathy, M.E., *et al.* Carnitine transport and its inhibition by sulfonylureas in human kidney proximal tubular epithelial cells. *Biochem. Pharmacol.* **58**(8), 1361-1370 (1999).
3. Bell, F.P. Carnitine esters: Novel inhibitors of plasma lecithin: Cholesterol acyltransferase in experimental animals but not in man (*Homo sapiens*). *Int. J. Biochem.* **15**(2), 133-136 (1983).
4. Reuter, S.E. and Evans, A.M. Long-chain acylcarnitine deficiency in patients with chronic fatigue syndrome. Potential involvement of altered carnitine palmitoyltransferase-I activity. *J. Intern. Med.* **270**(1), 76-84 (2011).

#### 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.

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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897

[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM