



Product Information

Product ID P0146

CAS No. 18877-64-0

Chemical Name

Synonym O-Palmitoyl-L-carnitine chloride

Formula $C_{23}H_{46}NO_4 Cl$

Formula Wt. 436.1

Melting Point

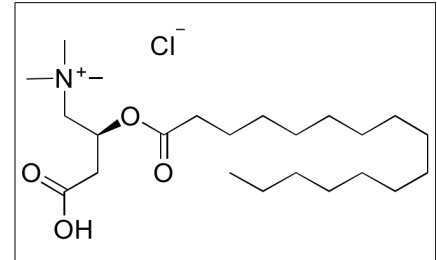
Purity $\geq 98\%$

Solubility Soluble in water with heat or sonication.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Palmitoyl-L-carnitine is a long chain acylcarnitine that is involved in fatty acid metabolism. This compound is a substrate used to stimulate mitochondrial respiration and to study mitochondrial function in research models. Palmitoyl-L-carnitine may stimulate sphingosine-1-phosphate (S1P) receptors.



Bulk quantities available upon request

Product ID	Size
P0146	5 mg
P0146	10 mg

References Monternier PA, Marmillot V, Rouanet JL, et al. Mitochondrial phenotypic flexibility enhances energy savings during winter fast in king penguin chicks. *J Exp Biol.* 2014 Aug 1;217(Pt 15):2691-7. PMID: 24803465.

Bernatoniene J, Majiene D, Peciura R, et al. The effect of Ginkgo biloba extract on mitochondrial oxidative phosphorylation in the normal and ischemic rat heart. *Phytother Res.* 2011 Jul;25(7):1054-60. PMID: 21259351.

Muraki K, Imaizumi Y. A novel action of palmitoyl-L-carnitine in human vascular endothelial cells. *J Pharmacol Sci.* 2003 Jul;92(3):252-8. PMID: 12890891.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.