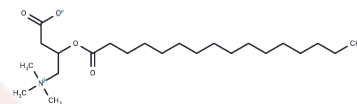


Palmitoylcarnitine

Chemical Properties

CAS No. :	1935-18-8
Formula:	C ₂₃ H ₄₅ NO ₄
Molecular Weight:	399.61
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Palmitoylcarnitine (Palmitoyl DL-carnitine) is a mitochondrial fatty acid oxidation intermediate that acts as a surfactant.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 4.03 mg/mL (10.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5024 mL	12.5122 mL	25.0244 mL
5 mM	0.5005 mL	2.5024 mL	5.0049 mL
10 mM	0.2502 mL	1.2512 mL	2.5024 mL
50 mM	0.050 mL	0.2502 mL	0.5005 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Al-Bakheit A, et al. Accumulation of Palmitoylcarnitine and Its Effect on Pro-Inflammatory Pathways and Calcium Influx in Prostate Cancer. Prostate. 2016 Oct;76(14):1326-37.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481