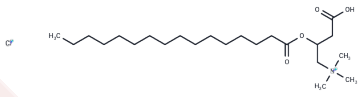
Data Sheet (Cat.No.T13810)

TargetMol

Palmitoylcarnitine chloride

Chemical Properties



CAS No. : 6865-14-1

Formula: C23H46ClNO4

Molecular Weight: 436.07

Storage: Keep away from moisture
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 chloride (Palmitoyl DL-carnitine chloride) is a mitochondrial fatty acid oxidation intermediate that mediates intralipid cardioprotection.Palmitoylcarnitine chloride eliminates colorectal cancer cell survival by depletion of glutathione. induces cancer cell death and regulates the interaction between protein kinase C βII and its receptor RACK1.
Targets(IC50)	Calcium Channel,Akt,Endogenous Metabolite,PKC

Solubility Information

Solubility	H2O: 30 mg/mL (68.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2932 mL	11.466 mL	22.9321 mL
5 mM	0.4586 mL	2.2932 mL	4.5864 mL
10 mM	0.2293 mL	1.1466 mL	2.2932 mL
50 mM	0.0459 mL	0.2293 mL	0.4586 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.
Chao AC,et al. Molecular weight-dependent paracellular transport of fluorescent model compounds induced by palmitoylcarnitine chloride across the human intestinal epithelial cell line Caco-J Drug Target. 1998;6(1):37-43.

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