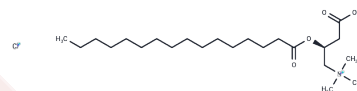


## Palmitoyl-D-carnitine (chloride)

## Chemical Properties

CAS No. :	28330-02-1
Formula:	C <sub>23</sub> H <sub>46</sub> ClNO <sub>4</sub>
Molecular Weight:	436.07
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	Palmitoyl-D-carnitine is a long-chain acylcarnitine, an isomer of palmitoyl-L-carnitine, and the D enantiomer of palmitoyl-DL-carnitine. It inhibits carnitine palmitoyltransferase with a $K_i$ value of 2.1 mM for 14C-palmitoylcarnitine synthesis by erythrocyte membranes.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 14 mg/mL (32.1 mM), Sonication is recommended. DMF: 20 mg/mL (45.86 mM), Sonication is recommended. Ethanol: 20 mg/mL (45.86 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	2.2932 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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