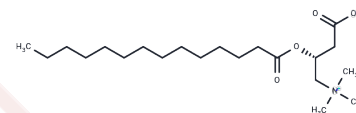


Tetradecanoylcarnitine

Chemical Properties

CAS No. :	25597-07-3
Formula:	C ₂₁ H ₄₁ NO ₄
Molecular Weight:	371.55
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Tetradecanoylcarnitine (L-Myristoylcarnitine) is an acylcarnitine involved in the beta-oxidation of long-chain fatty acids, and is a potential marker for very-long-chain coenzyme A dehydrogenase deficiency. alpha-Dihydroartemisinin is a potent and selective inhibitor with multiple targets.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 25 mg/mL (67.29 mM),Sonication is recommended. H ₂ O: 80 mg/mL (215.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.38 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6914 mL	13.4571 mL	26.9143 mL
5 mM	0.5383 mL	2.6914 mL	5.3829 mL
10 mM	0.2691 mL	1.3457 mL	2.6914 mL
50 mM	0.0538 mL	0.2691 mL	0.5383 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

Fu W, et al. Phospholipase A2 regulates autophagy in gouty arthritis: proteomic and metabolomic studies. J Transl Med. 2023 Apr 17;21(1):261.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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