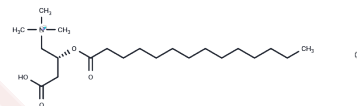


Myristoyl-L-carnitine chloride

Chemical Properties

CAS No. :	173686-73-2
Formula:	C ₂₁ H ₄₂ ClNO ₄
Molecular Weight:	408.02
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	Myristoyl-L-carnitine chloride (L-Myristoylcarnitine chloride) is one of the body's metabolites implicated in inherited metabolic disorders. Tetradecanoylcarnitine is a potential marker for the study of diabetes mellitus and autoimmune hepatitis.
Targets(IC50)	Others, Amino Acids and Derivatives

Solubility Information

Solubility	Methanol: < 1 mg/mL (insoluble or slightly soluble) H ₂ O: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4509 mL	12.2543 mL	24.5086 mL
5 mM	0.4902 mL	2.4509 mL	4.9017 mL
10 mM	0.2451 mL	1.2254 mL	2.4509 mL
50 mM	0.049 mL	0.2451 mL	0.4902 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

- Stephanie E Reuter, et al. Impact of haemodialysis on individual endogenous plasma acylcarnitine concentrations in end-stage renal disease. *Ann Clin Biochem.* 2005 Sep;42(Pt 5):387-93.
- Turk H, Erdal S, Dumlupinar R. Exogenous carnitine application augments transport of fatty acids into mitochondria and stimulates mitochondrial respiration in maize seedlings grown under normal and cold conditions. *Cryobiology.* 2019 Dec;91:97-103.

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