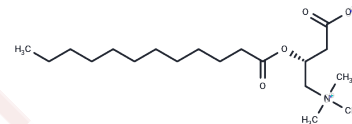


Dodecanoylcarnitine

Chemical Properties

CAS No. : 25518-54-1
 Formula: C19H37NO4
 Molecular Weight: 343.5
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Dodecanoylcarnitine ((-)-Lauroylcarnitine) has been associated with disturbances in fatty acid oxidation, and the use of Dodecanoylcarnitine resulted in an increase in the permeability of salmon calcitonin.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	Methanol: 50 mg/mL (145.56 mM), Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble), 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	2.9112 mL	14.556 mL	29.1121 mL
5 mM	0.5822 mL	2.9112 mL	5.8224 mL
10 mM	0.2911 mL	1.4556 mL	2.9112 mL
50 mM	0.0582 mL	0.2911 mL	0.5822 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.

Reference

Shigematsu Y, et al. Selective screening for fatty acid oxidation disorders by tandem mass spectrometry: difficulties in practical discrimination. J Chromatogr B Analyt Technol Biomed Life Sci. 2003 Jul 15;792(1):63-72.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481