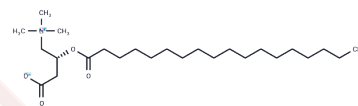


Stearoylcarnitine

Chemical Properties

CAS No. :	25597-09-5
Formula:	C ₂₅ H ₄₉ NO ₄
Molecular Weight:	427.66
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	Stearoylcarnitine (Stearoyl-L-carnitine) is a fatty ester lipid molecule, a human endogenous metabolite that serves as a biomarker for early-onset preeclampsia and late-onset preeclampsia.
Targets(IC50)	Endogenous Metabolite,GlyT,PKC

Solubility Information

Solubility	DMSO: 6.94 mg/mL (16.23 mM),Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble),Sonication and heating to 80°C are 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 (4.68 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	2.3383 mL	11.6915 mL	23.3831 mL
5 mM	0.4677 mL	2.3383 mL	4.6766 mL
10 mM	0.2338 mL	1.1692 mL	2.3383 mL
50 mM	0.0468 mL	0.2338 mL	0.4677 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

Maria P H Koster, et al. First-Trimester Serum Acylcarnitine Levels to Predict Preeclampsia: A Metabolomics Approach. Dis Markers. 2015;2015:857108.

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