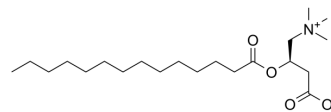


Tetradecanoylcarnitine

Cat. No.:	HY-113201
CAS No.:	25597-07-3
Molecular Formula:	C ₂₁ H ₄₁ NO ₄
Molecular Weight:	371.55
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (269.14 mM; Need ultrasonic)					
	DMSO : 25 mg/mL (67.29 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		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		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tetradecanoylcarnitine is a human carnitine involved in β-oxidation of long-chain fatty acids.
IC₅₀ & Target	Human Endogenous Metabolite

Caution: Product has not been fully validated for medical applications. For research use only.

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