

L-Palmitoylcarnitine TFA

Chemical Properties

CAS No. :

Formula: C₂₅H₄₆F₃N₆O₆

Molecular Weight: 513.63

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	L-Palmitoylcarnitine TFA, a long-chain acylcarnitine and fatty acid metabolite, accumulates in the sarcolemma and disrupts the membrane lipid environment during ischemia. It inhibits K ATP channel activity by interacting with Kir6.2 without altering single-channel conductance [1].
Targets(IC50)	Others,Endogenous Metabolite,Potassium Channel

Solubility Information

Solubility	DMSO: 100 mg/mL (194.69 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: 3.3 mg/mL (6.42 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	1.9469 mL	9.7346 mL	19.4693 mL
5 mM	0.3894 mL	1.9469 mL	3.8939 mL
10 mM	0.1947 mL	0.9735 mL	1.9469 mL
50 mM	0.0389 mL	0.1947 mL	0.3894 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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