

DL-Carnitine

Chemical Properties

CAS No. :	406-76-8
Formula:	C7H15NO3
Molecular Weight:	161.2
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	DL-Carnitine (Carnitina) is the constituent of liver and striated muscle. In therapeutically It is used to stimulate pancreatic and gastric secretions and to treat hyperlipoproteinemias.
Targets(IC50)	Others,Mitochondrial Metabolism

Solubility Information

Solubility	DMSO: 33.33 mg/mL (206.76 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.33 mg/mL (20.66 mM),Solution. <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	6.2035 mL	31.0174 mL	62.0347 mL
5 mM	1.2407 mL	6.2035 mL	12.4069 mL
10 mM	0.6203 mL	3.1017 mL	6.2035 mL
50 mM	0.1241 mL	0.6203 mL	1.2407 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

Lopes G, et al. Braz J Med Biol Res. 2003 Sep;36(9):1255-62.

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