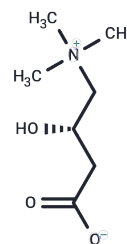


L-Carnitine

Chemical Properties

CAS No. :	541-15-1
Formula:	C7H15NO3
Molecular Weight:	161.20
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	L-Carnitine (L(-)-Carnitine) is an amino acid derivative. L-Carnitine facilitates long-chain fatty acid entry into mitochondria, delivering substrate for oxidation and subsequent energy production. Fatty acids are utilized as an energy substrate in all tissues except the brain.
Targets(IC50)	Endogenous Metabolite,Fatty Acid Synthase

Solubility Information

Solubility	DMSO: 6.25 mg/mL (38.77 mM),Sonication is recommended. H2O: 29 mg/mL (179.9 mM),Sonication is recommended. Ethanol: 30 mg/mL (186.1 mM),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	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

Jogl G, Tong L. Cell. 2003 Jan 10; 112(1):113-22.

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