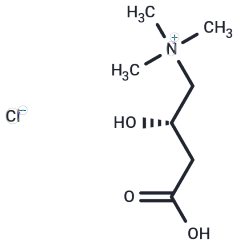
Data Sheet (Cat.No.T2203)

TargetMol

D-Carnitine hydrochloride

Chemical Properties



CAS No. :	10017-44-4
Formula:	C7H15NO3·HCl
Molecular Weight:	197.66
Appearance:	no data available
Storage:	Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	D-Carnitine hydrochloride ((S)-Carnitine Hydrochloride) is a component of striated muscle and liver, used therapeutically to stimulate gastric and pancreatic secretions and to treat hyperlipoproteinemias.
Targets(IC50)	Endogenous Metabolite
Kinase Assay	Competitive ligand binding assay.: Ligand binding is performed using lysates from COS-7 cells transfected with expression plasmids for VDR or RXRα. Binding is performed overnight at 4°C in lysate buffer with 0.71 nM (18 Ci/mmol) [3H]1,25(OH)2D3 and bile acid competitor. Unbound [3H]1,25(OH)2D3 is removed by adsorption to dextran-coated charcoal and the supernatant removed for scintillation counting. Ki values are calculated from a computer fit of competition curves from triplicate assays.

Solubility Information

Solubility	DMSO: 27.5 mg/mL (139.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0592 mL	25.296 mL	50.5919 mL
5 mM	1.0118 mL	5.0592 mL	10.1184 mL
10 mM	0.5059 mL	2.5296 mL	5.0592 mL
50 mM	0.1012 mL	0.5059 mL	1.0118 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.

Reference

Merra G, et al. World J Gastroenterol. 2012 Sep 28;18(36):5065-71.
Guo Y, Suo N, Cui X, et al. Vitamin C promotes oligodendrocytes generation and remyelination. Glia. 2018, 66(7): 1302-1316
Guo Y, Suo N, Cui X, et al. Vitamin C promotes oligodendrocytes generation and remyelination[J]. Glia. 2018 Jul;66 (7):1302-1316.

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