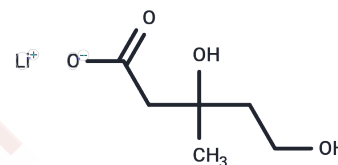


Mevalonic acid lithium salt

Chemical Properties

CAS No. :	2618458-93-6
Formula:	C ₆ H ₁₁ LiO ₄
Molecular Weight:	154.09
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	Mevalonic acid lithium salt (MVA lithium salt) is a precursor of the mevalonic acid pathway, an initiator of cell growth, a key substance in cholesterol synthesis, and stimulates DNA synthesis, morphology transformation, and cell cycling in human lymphocytes from peripheral blood.
Targets(IC50)	Endogenous Metabolite
In vitro	Mevalonic acid lithium salt (80, 90, 100, 110 μM) treatment of C2C12 myotubular cells for 72 hours resisted simvastatin-induced reduction in cell viability. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL (259.59 mM),Sonication is recommended. H2O: 80 mg/mL (519.18 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: 2 mg/mL (12.98 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	6.4897 mL	32.4486 mL	64.8971 mL
5 mM	1.2979 mL	6.4897 mL	12.9794 mL
10 mM	0.649 mL	3.2449 mL	6.4897 mL
50 mM	0.1298 mL	0.649 mL	1.2979 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

Moschetti A, et al. Coenzyme Q nanodisks counteract the effect of statins on C2C12 myotubes. *Nanomedicine*. 2021 Oct;37:102439.

Soma MR, et al. Cholesterol and mevalonic acid modulation in cell metabolism and multiplication. *Toxicol Lett*. 1992 Dec;64-65 Spec No:1-15.

Gong L, et al. The mevalonate coordinates energy input and cell proliferation. *Cell Death Dis*. 2019 Apr 11;10(4):327.

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