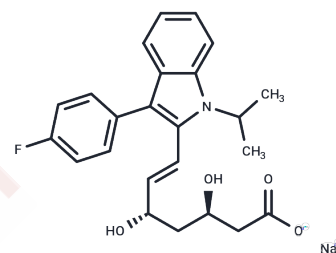


Fluvastatin sodium

Chemical Properties

CAS No. :	93957-55-2
Formula:	C ₂₄ H ₂₅ FNNaO ₄
Molecular Weight:	433.45
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	Fluvastatin sodium (Fluvastatin sodium salt), a competitive inhibitor of hydroxymethylglutaryl-coenzyme A reductase (HMGCR), is a commonly used cholesterol lowering agent.
Targets(IC50)	Ferroptosis,HMG-CoA Reductase,Autophagy
In vitro	In a rabbit model, daily administration of Fluvastatin (10 mg/kg) significantly reversed the inhibition of acetylcholine-induced vasodilation, effectively reducing hyperlipidemia.
In vivo	In human aortic smooth muscle cells, Fluvastatin (100 nM) reduces the formation of superoxide anion radicals activated by angiotensin II. In CHL/IU cells, Fluvastatin (8 μM) offers protection against DNA damage. It significantly inhibits the formation of thiobarbituric acid-reactive substances in lipid peroxidation initiated by divalent iron ions (IC ₅₀ =12 μM). Fluvastatin (1-100 μM) can inhibit lipid peroxidation mediated by peroxy radicals induced by 2,2'-azobis(2-amidinopropane) dihydrochloride and 2,2'-azobis.

Solubility Information

Solubility	H ₂ O: 10.8 mg/mL (24.92 mM),Sonication is recommended. DMSO: 245 mg/mL (565.23 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 (4.61 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	2.3071 mL	11.5354 mL	23.0707 mL
5 mM	0.4614 mL	2.3071 mL	4.6141 mL
10 mM	0.2307 mL	1.1535 mL	2.3071 mL
50 mM	0.0461 mL	0.2307 mL	0.4614 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

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