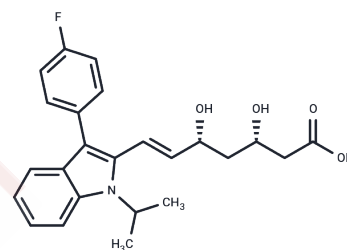


Fluvastatin

Chemical Properties

CAS No. :	93957-54-1
Formula:	C ₂₄ H ₂₆ FNO ₄
Molecular Weight:	411.47
Storage:	Store under nitrogen 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	Fluvastatin (XU-62320) is a potent and competitive HMG-CoA reductase inhibitor (IC ₅₀ : 8 nM) that inhibits oxidative stress in vascular smooth muscle cells through an Nrf2-dependent pathway, and is used for the reduction of plasma cholesterol levels and the prevention of cardiovascular disease.
Targets(IC ₅₀)	HMG-CoA Reductase, Autophagy

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 252.5 mg/mL (613.65 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	2.4303 mL	12.1516 mL	24.3031 mL
5 mM	0.4861 mL	2.4303 mL	4.8606 mL
10 mM	0.243 mL	1.2152 mL	2.4303 mL
50 mM	0.0486 mL	0.243 mL	0.4861 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

Makabe S, et al. Fluvastatin protects vascular smooth muscle cells against oxidative stress through the Nrf2-dependent antioxidant pathway. *Atherosclerosis*. 2010 Dec;213(2):377-84.

Wu Zhang, et al. Fluvastatin, a lipophilic statin, induces apoptosis in human hepatocellular carcinoma cells through mitochondria-operated pathway. *Indian J Exp Biol*. 2010 Dec;48(12):1167-74.

Neuvonen PJ, Backman JT, Niemi M. Pharmacokinetic comparison of the potential over-the-counter statins simvastatin, lovastatin, fluvastatin and pravastatin. *Clin Pharmacokinet*. 2008;47(7):463-74. Review. PubMed PMID: 18563955.

Stein EA, Corsini A, Gimpelewicz CR, Bortolini M, Gil M. Fluvastatin treatment is not associated with an increased incidence of cancer. *Int J Clin Pract*. 2006 Sep;60(9):1028-34. Review. PubMed PMID: 16939542.

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