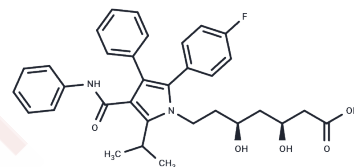


(3S,5S)-Atorvastatin

Chemical Properties

CAS No. :	501121-34-2
Formula:	C ₃₃ H ₃₅ FN ₂ O ₅
Molecular Weight:	558.65
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	(3S,5S)-Atorvastatin is the inactive enantiomer of atorvastatin that has no inhibitory activity against HMG-CoA reductase but can activate the pregnane X receptor (PXR). Atorvastatin is an orally active HMG-CoA reductase inhibitor with the ability to effectively lower blood lipid levels.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 100 mg/mL (179 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	1.790 mL	8.9501 mL	17.9003 mL
5 mM	0.358 mL	1.790 mL	3.5801 mL
10 mM	0.179 mL	0.895 mL	1.790 mL
50 mM	0.0358 mL	0.179 mL	0.358 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

Thomas A Kocarek, et al. Regulation of CYP2B6 and CYP3A Expression by Hydroxymethylglutaryl Coenzyme A Inhibitors in Primary Cultured Human Hepatocytes. *Drug Metab Dispos.* 2002 Dec;30(12):1400-5.

Martina Korhonova, et al. Optical Isomers of Atorvastatin, Rosuvastatin and Fluvastatin Enantiospecifically Activate Pregnane X Receptor PXR and Induce CYP2A6, CYP2B6 and CYP3A4 in Human Hepatocytes. *PLoS One.* 2015 Sep 14; 10(9):e0137720.

Elena G Shcherbakova, et al. High-Throughput Assay for Enantiomeric Excess Determination in 1,2- And 1,3-Diols and Direct Asymmetric Reaction Screening. *Chemistry.* 2017 Jul 26;23(42):10222-10229.

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