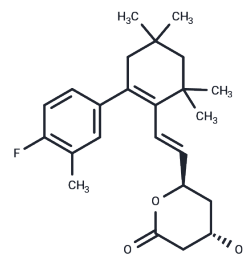


Dalvastatin

Chemical Properties

CAS No. :	132100-55-1
Formula:	C ₂₄ H ₃₁ F ₀ O ₃
Molecular Weight:	386.5
Storage:	Store at low temperature
	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dalvastatin (RG-12561) is an orally available inhibitor of HMG-CoA reductase and cholesterol-lowering synthesis. Dalvastatin competitively inhibits rat hepatic HMG-CoA reductase with an IC ₅₀ value of 3.4 nmol / l. Dalvastatin inhibits cholesterol biosynthesis in liver sections in rat experiments with an ED ₅₀ value of 0.9.
Targets(IC ₅₀)	HMG-CoA Reductase

Solubility Information

Solubility	DMSO: 50 mg/mL (129.37 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	2.5873 mL	12.9366 mL	25.8732 mL
5 mM	0.5175 mL	2.5873 mL	5.1746 mL
10 mM	0.2587 mL	1.2937 mL	2.5873 mL
50 mM	0.0517 mL	0.2587 mL	0.5175 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

- Khetarpal VK, et al. Method for separation and determination of lactone and hydroxy acid forms of a new HMG CoA reductase inhibitor (RG 12561) in plasma. *J Chromatogr.* 1991 Jul 5;567(2):491-7.
- Amin D, et al. RG 12561 (dalvastatin): a novel synthetic inhibitor of HMG-CoA reductase and cholesterol-lowering agent. *Pharmacology.* 1993;46(1):13-22.
- Won CM. Epimerization and hydrolysis of dalvastatin, a new hydroxymethylglutaryl coenzyme A (HMG-CoA) reductase inhibitor. *Pharm Res.* 1994 Jan;11(1):165-70.
- Ammon HL, et al. Structure of RG-12561 dichloromethane solvate and a diastereomer. *Acta Crystallogr C.* 1992 Apr 15;48 (Pt 4):669-75.

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