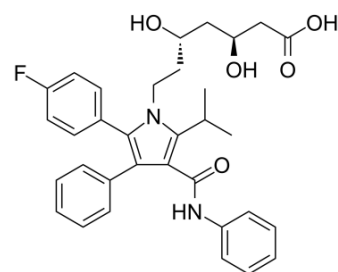


(rel)-Atorvastatin

Cat. No.:	HY-B0589A
CAS No.:	110862-48-1
Molecular Formula:	C ₃₃ H ₃₅ FN ₂ O ₅
Molecular Weight:	558.64
Target:	HMG-CoA Reductase (HMGCR); Autophagy
Pathway:	Metabolic Enzyme/Protease; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



Relative stereochemistry

SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (223.76 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.7901 mL	8.9503 mL	17.9006 mL
		5 mM	0.3580 mL	1.7901 mL	3.5801 mL
10 mM	0.1790 mL	0.8950 mL	1.7901 mL		
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (11.19 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (11.19 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(rel)-Atorvastatin, a relative configuration of Atorvastatin. Atorvastatin is an orally active HMG-CoA reductase inhibitor, has the ability to effectively decrease blood lipids. Atorvastatin inhibits human SV-SMC proliferation and invasion with IC ₅₀ s of 0.39 μM and 2.39 μM, respectively ^{[1][2][3]} .
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REFERENCES

[1]. Santodomingo-Garzón T, et al. Atorvastatin inhibits inflammatory hypernociception. *Br J Pharmacol.* 2006 Sep;149(1):14-22.

[2]. Turner NA, et al. Comparison of the efficacies of five different statins on inhibition of human saphenous vein smooth muscle cell proliferation and invasion. *J Cardiovasc Pharmacol.* 2007 Oct;50(4):458-61.

[3]. Nawrocki, J.W., et al., Reduction of LDL cholesterol by 25% to 60% in patients with primary hypercholesterolemia by atorvastatin, a new HMG-CoA reductase inhibitor. *Arterioscler Thromb Vasc Biol*, 1995. 15(5): p. 678-82.

[4]. Ming-Bai Hu, et al. Atorvastatin induces autophagy in MDA-MB-231 breast cancer cells. *Ultrastruct Pathol*. Sep-Oct 2018;42(5):409-415.

Caution: Product has not been fully validated for medical applications. For research use only.

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