Bemfivastatin

Cat. No.: HY-106281

CAS No.: 805241-79-6

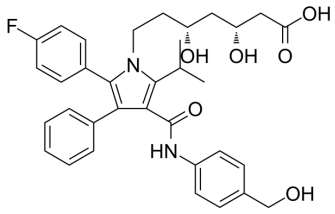
Molecular Formula: $C_{34}H_{37}FN_2O_6$

Molecular Weight: 588.67

Target: HMG-CoA Reductase (HMGCR)

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (169.87 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6987 mL	8.4937 mL	16.9874 mL
	5 mM	0.3397 mL	1.6987 mL	3.3975 mL
	10 mM	0.1699 mL	0.8494 mL	1.6987 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: ≥ 2.5 mg/mL (4.25 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.25 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bemfivastatin (PPD 10558) is an orally active, HMG-CoA Reductase (HMGCR) inhibitor, also known as Statin. Bemfivastatin enhances the activity of liver extraction. Bemfivastatin exhibits little developmental toxicity effects in pregnant rats and rabbits via daily oral doses during organogenesis period. The no observed adverse effect level (NOAEL) are ≥320 mg/kg/day for rats developmental toxicity, 12.5 mg/kg/day for rabbits maternal toxicity, and 25 mg/kg/day for rabbits developmental toxicity, respectively. Bemfivastatin can be used for research on Statin-related hypercholesterolemic myalgia with inability to tolerate statins[1][2].

REFERENCES

[1]. Faqi AS, et al. Developmental toxicity of the HMG-CoA reductase inhibitor (PPD10558) in rats and rabbits. Birth Defects Res B Dev Reprod Toxicol. 2012 Feb;95(1):23-37.

[2]. Wierzbicki A, et al. Drugs in development for the management of dyslipidaemia[J]. Future Prescriber, 2012, 13(2): 12-15.

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