Lovastatin hydroxy acid sodium

Cat. No.: HY-123672

CAS No.: 75225-50-2

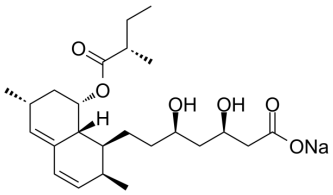
Molecular Formula: $C_{24}H_{37}NaO_6$

Molecular Weight: 444.54

Target: HMG-CoA Reductase (HMGCR)

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (28.12 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2495 mL	11.2476 mL	22.4952 mL
	5 mM	0.4499 mL	2.2495 mL	4.4990 mL
	10 mM	0.2250 mL	1.1248 mL	2.2495 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lovastatin hydroxy acid sodium (Mevinolinic acid sodium) is a highly potent inhibitor of HMG-CoA reductase with a K_i of 0.6 nM[1].

IC_{50} & Target

Ki: 0.6 nM (HMG-CoA reductase)[1]

In Vitro

Mevinolin in the hydroxy-acid form, mevinolinic acid, is a potent competitive inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A reductase [mevalonate: $NADP^+$ oxidoreductase (CoA-acylating)][1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. A W Alberts, eta al. Mevinolin: A Highly Potent Competitive Inhibitor of Hydroxymethylglutaryl-Coenzyme A Reductase and a Cholesterol-Lowering Agent. Proc Natl Acad Sci U S A. 1980 Jul;77(7):3957-61.

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

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