

Product Data Sheet

Product Name: Mevastatin

Cat. No.: GC11895

Chemical Properties

Cas. No. 73573-88-3

Chemical Name [(1S,7S,8S,8aR)-8-[2-[(2R,4R)-4-hydroxy-6-oxooxan-2-yl]ethyl]-7-methyl-1,2,3,7,8,8a-hexahydronaphthalen-1-yl] (2S)-2-methylbutanoate

SMILES CCC(C)C(=O)OC1CCC=C2C1C(C(C=C2)C)CCC3CC(CC(=O)O3)O

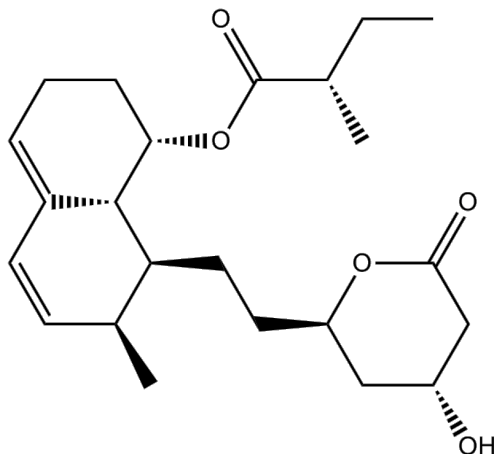
Formula C₂₃H₃₄O₅ M.Wt 390.51

Solubility ≥ 15.95mg/mL in DMSO Storage 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Mevastatin is an inhibitor of HMG-CoA reductase with K_i value of 1nM [1].

Mevastatin inhibits HMG-CoA reductase reversibly and competes with HMG-CoA. It shows a K_i value of about 1nM. Mevastatin inhibits sterol synthesis from acetate in various cells at low concentration of nanomolar. It also inhibits acetate incorporation with IC_{50} value of 1nM. Besides that, mevastatin

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

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completely suppresses the growth of L cells at 1.3 μ M. Mevastatin is also found to affect the cell cycle and change cell morphology in cultured fibroblasts [1].

In rats, administration of mevastatin inhibits sterol synthesis in the liver and reduces plasma cholesterol levels. In patients with familial hypercholesterolemia, mevastatin also shows potent effects on reducing plasma cholesterol. Mevastatin at dose of 50 mg/day reduces 25% total cholesterol in a FH heterozygote patient treated with 2 months [1].

References:

[1] Endo A. The discovery and development of HMG-CoA reductase inhibitors. Journal of lipid research, 1992, 33(11): 1569-1582.

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