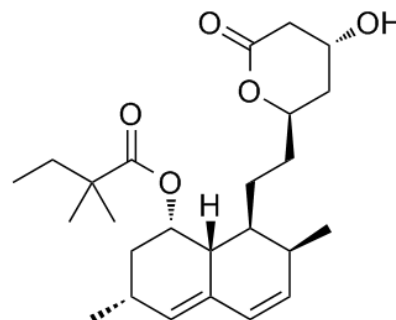


Product Name : Simvastatin
Cat. No. : PC-45300
CAS No. : 79902-63-9
Molecular Formula : C₂₅H₃₈O₅
Molecular Weight : 418.5662
Target : HMG-CoA Reductase (HMGCR)
Solubility : 10 mM in DMSO



Biological Activity

A potent, competitive inhibitor of HMG-CoA reductase (HMGCR) with K_d of 0.1-0.2 nM; inhibits cholesterol synthesis in mouse L-M cell (fibroblast), rat H4II E cell (liver), and human Hep G2 cell (liver) with IC₅₀ of 19.3 nM, 13.3 nM and 15.6 nM, respectively; also shows anti-inflammatory activity in inflammatory arthritis.

Dyslipidemia
Approved

References

- Kureishi Y, et al. Nat Med. 2000 Sep;6(9):1004-10.
Slater EE, et al. Drugs. 1988;36 Suppl 3:72-82.
Leung BP, et al. J Immunol. 2003 Feb 1;170(3):1524-30.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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