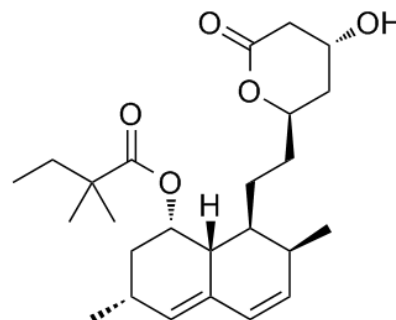


Product Name : Simvastatin
Cat. No. : PC-45300
CAS No. : 79902-63-9
Molecular Formula : C₂₅H₃₈O₅
Molecular Weight : 418.5662
Target : HMG-CoA Reductase (HMGCR)
Solubility : 10 mM in DMSO



Biological Activity

Simvastatin (MK-733) is a potent, competitive inhibitor of HMG-CoA reductase (**HMGCR**) with K_d of 0.1-0.2 nM. Simvastatin (MK-733) 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. Simvastatin (MK-733) also shows anti-inflammatory activity in inflammatory arthritis.

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!

E-mail: tech@probechem.com