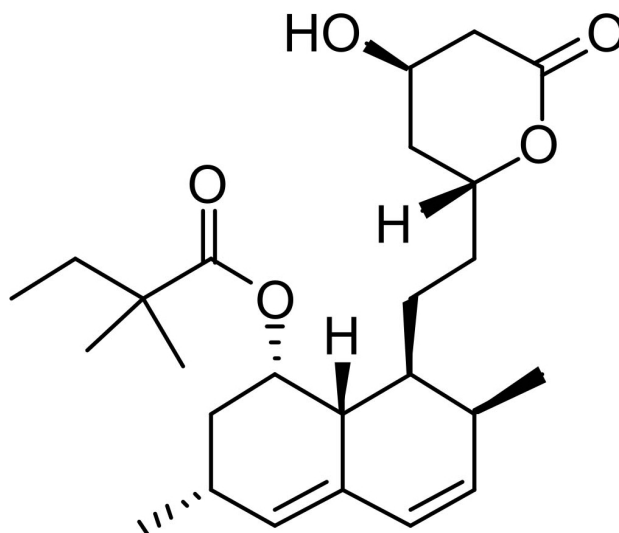


Simvastatin

Code No.: BIA-S1276

Pack sizes.: 25mg, 100mg



Synonyms:
MK-733

Specifications

CAS #	: 79902-63-9
Molecular Formula	: C₂₅H₃₈O₅
Molecular Weight	: 418.6
Source	: -
Appearance	: White powder
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Simvastatin is semi-synthetic, slightly more hydrophobic analogue of lovastatin. Like lovastatin, simvastatin is a specific inhibitor of HMG-CoA reductase and is used therapeutically to reduce LDL cholesterol. More recently, the statins have become important biochemical probes in cell biology. Their involvement in many events can be correlated to their primary mode of action, however, the mechanism of action of many other effects is less apparent.

References

1. Hoffman W. F. US Patent 4,444,784 (1984).
2. Lovastatin and simvastatin are modulators of the proteasome. Wojcik C. et al., Int. J. Biochem. Cell Biol.

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3. 3-Hydroxy-3-methylglutaryl CoA reductase inhibitors prevent high glucose-induced proliferation of mesangial cells via modulation of Rho GTPase/p21 signaling pathway: Implications for diabetic nephropathy. Danesh F. R. et al., Proc. Natl. Acad. Sci. USA 2002, 99, 8301.