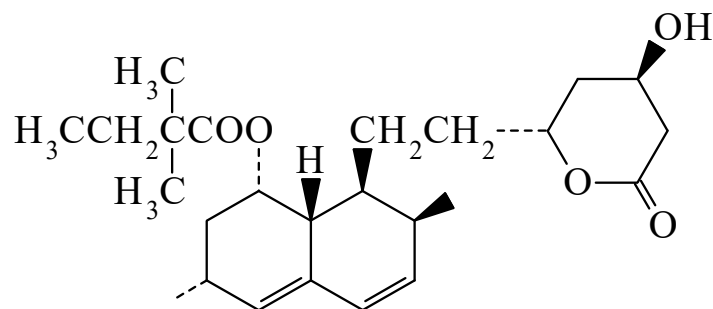




>>Entry Name: Simvastatin, BAN, INN, USAN

Synonym(s): 1,2,3,7,8,8a-Hexahydro-3,7-dimethyl-8-[2-(tetrahydro-4-hydroxy-2-oxo-2H-pyran-2-yl)ethyl]-1-naphthalenyl 2,2-dimethylbutanoate, gcl. Colemin. Denan. Lipex. Liponorm. Lodaes. Medipo. Pantok. Sinvacor. Sivastin. Synvinolin. Velastatin. Zocor. Zocord. MK 733



CAS Registry Number: 79902-63-9

Molecular Formula: C₂₅H₃₈O₅

Molecular Weight: 418.572

Accurate Mass: 418.271925

Percentage Composition: C 71.74%; H 9.15%; O 19.11%

Biological Use/Importance: HMG-CoA reductase inhibitor; used in the treatment of hypercholesterolaemia, and to reduce risk of death in patients with coronary heart disease and high serum cholesterol levels

Physical Description: Cryst. (1-chlorobutane/hexane)

Development Status: Marketed drug. Launched 1988. Worldwide 2nd best selling prescription drug (\$5.3 bn) (Merck) (2000, Pharma Business)

Melting Point: Mp 135-138°

Solubility: Insol. H₂O; sol. CHCl₃, MeOH

Calculated Log P Data: Log P 4.48 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 4438 mg/kg. LD₅₀ (rat, ipr) 705 mg/kg. Exp. reprod. effects

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