

Catalog # 10-1018

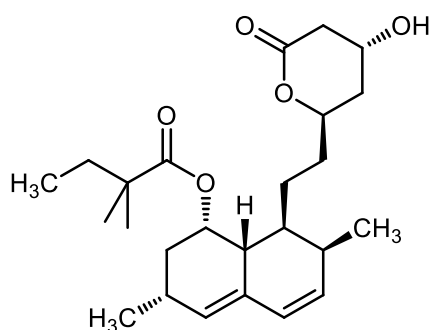
Simvastatin

CAS# 79902-63-9

2,2-Dimethyl-1,2,3,7,8,8a-Hexahydro-3,7-dimethyl-8-[2-(tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl)ethyl]-1-naphthalenyl
ester butanoic acid

Mevinolin

Lot # X101199



A synthetic analog of lovastatin. Blocks cholesterol and isoprenoid biosynthesis via inhibition of HMG-CoA reductase^{1,2}. Induces apoptosis in various cell lines. Causes cell cycle arrest in early G1 phase. Clinically useful antilipemic agent³.

- 1) Merck 14:8539
- 2) Hancock *et al.* (1989), *All ras proteins are polyisoprenylated but only some are palmitoylated*; Cell, **57** 1167
- 3) Ose *et al.* (2000), *Lipid-altering efficacy and safety of simvastatin 80 mg/day: long-term experience in a large group of patients with hypercholesterolemia. World Wide Expanded Dose Simvastatin Study Group*, Clin. Cardiol. **23** 39

PHYSICAL DATA

Molecular Weight:	418.58
Molecular Formula:	C ₂₅ H ₃₈ O ₅
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 35 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months

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