

Catalog # 10-1222 Lovastatin

CAS# 75330-75-5

2-Methyl - 1, 2, 3, 7, 8, 8a-hexa hydro - 3, 7-dimethyl - 8-[2-(tetrahydro - 4-hydroxy - 6-oxo - 2H-pyran - 2-yl)ethyl] - 1-naphthalenyl - 1

ester butanoic acid Mevinolin; MK-803 Lot # X101250



Blocks cholesterol and isoprenoid biosynthesis via inhibition of HMG-CoA reductase (K_i=1nM for acid form).^{1,2} Induces apoptosis in various cell lines.³ Causes cell cycle arrest in early G₁ phase.⁴ Clinically useful antihyperlipemic agent.⁵ Cell permeable

- 1) Alberts et al. (1988), Discovery, biochemistry and biology of lovastatin; Am. J. Cardiol., 62 10J
- 2) Hancock et al. (1989), All ras proteins are polyisoprenylated but only some are palmitoylated; Cell, 57 1167
- 3) Park et al. (1999), Lovastatin-induced inhibition of HL-60 cell proliferation via cell cycle arrest and apoptosis; Anticancer Res., **19** 3133
- 4) Vilimanovich et al. (2015), Statin-mediated inhibition of cholesterol synthesis induces cytoprotective autophagy in human leukemic cells; Eur. J. Pharmacol., **765** 415
- 5) Tobert et al. (1988), Efficacy and long-term adverse effect pattern of lovastatin; Am. J. Cardiol., 62 28J

PHYSICAL DATA

Molecular Weight:	404.55
Molecular Formula:	C ₂₄ H ₃₆ O ₅
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml), Ethanol (up to 35 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year 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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