



LKT Laboratories, Inc.

Mevinolin

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## Product Information

**Product ID** M1687

**CAS No.** 75330-75-5

**Chemical Name** (2S)-2-Methylbutanoic acid (1S,3R,7S,8S,8aR)-1,2,3,7,8,8a-hexahydro-3,7-dimethyl-8-[2-[(2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethyl]-1-naphthalen-yl ester

**Synonym** Mevacor, MK-803, Lovalip, Mevinacor, Mevlor, Sivlor, Lovastatin

**Formula** C<sub>24</sub>H<sub>36</sub>O<sub>5</sub>

**Formula Wt.** 404.54

**Melting Point** 174.5 °C

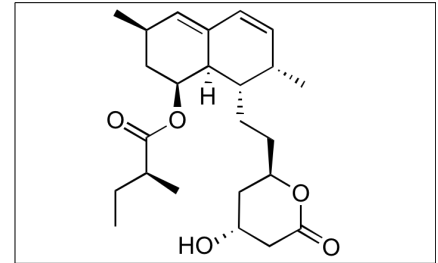
**Purity** ≥97%

**Solubility** Soluble in acetone and chloroform. Slightly soluble in DMSO (8mg/mL), methanol and ethanol (6mg/mL). Insoluble in water.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Mevinolin (lovastatin) is a synthetic statin that is also produced by oyster mushrooms and some varieties of rice. Lovastatin inhibits HMG-CoA reductase, preventing cholesterol synthesis; it exhibits anti-hyperlipidemic, anticancer, and antiviral activities. In vitro, lovastatin inhibits proliferation of lymphoma cells, decreasing expression of ROS and transient receptor potential canonical 6 (TRPC6) channels. Additionally, lovastatin inhibits coxsackievirus replication, decreasing expression of coxsackie and adenovirus receptors and preventing viral entry.



**Bulk quantities available upon request**

Product ID	Size
M1687	50 mg
M1687	100 mg
M1687	500 mg
M1687	5 g

**References** Song X, Liu BC, Lu XY, et al. Lovastatin inhibits human B lymphoma cell proliferation by reducing intracellular ROS and TRPC6 expression. *Biochim Biophys Acta*. 2014 May;1843(5):894-901. PMID: 24518247.

Werner B, Dittmann S, Funke C, et al. Effect of lovastatin on coxsackievirus B3 infection in human endothelial cells. *Inflamm Res*. 2014 Apr;63(4):267-76. PMID: 24316867.

Gunde-Cimerman N, Cimerman A. Pleurotus fruiting bodies contain the inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A reductase-lovastatin. *Exp Mycol*. 1995 Mar;19(1):1-6. PMID: 7614366.

Alberts AW. Discovery, biochemistry and biology of lovastatin. *Am J Cardiol*. 1988 Nov 11;62(15):10J-15J. PMID: 3055919.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.