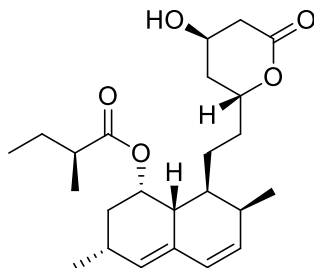


Lovastatin

Code No.: **BIA-L1264**

Pack sizes: **25 mg, 100 mg**



Synonyms : Mevinolin, Monacolin K, L 154803, MB 530B, MSD 803

Specifications

CAS #	: 75330-75-5
Molecular Formula	: C₂₄H₃₆O₅
Molecular Weight	: 404.5
Source	: <i>Monascus ruber</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Lovastatin (mevinolin) is a metabolite first isolated from *Monascus ruber* and later found in several other fungal species. Lovastatin is a potent inhibitor of HMG-CoA. HMG-CoA reductase is the rate-controlling enzyme of the mevalonate pathway, responsible for the biosynthesis of cholesterol. Lovastatin was developed as a drug as a hypolipemic agent.

References

1. Monacolin K, a new hypocholesterolemic agent produced by a *Monascus* species. Endo A. J. Antibiot. 1979, 32, 852.
2. Monacolin K, a new hypocholesterolemic agent that specifically inhibits 3-hydroxy-3-methylglutaryl coenzyme A reductase. Endo A. J. Antibiot. 1980, 33, 334.
3. Mevinolin: a highly potent competitive inhibitor of hydroxymethylglutaryl-coenzyme A reductase and a cholesterol-lowering agent. Alberts A. W. et al., Proc. Natl. Acad. Sci. U.S.A. 1980, 77, 3957.