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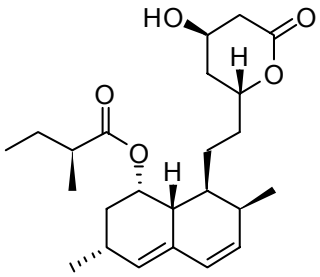
PRODUCT DATA SHEET

Lovastatin

Code: **BIA-L1264**

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



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

Specifications

CAS #	:	**75330-75-7**
Molecular Formula	:	**$C_{24}H_{36}O_5$**
Molecular Weight	:	**404.5**
Source	:	***Monascus ruber***
Appearance	:	**White powder**
Purity	:	**>98%**
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 acts as a potent inhibitor of 3-hydroxy-3-methyl-glutaryl-CoA reductase (HMG-CoA). HMG-CoA is the rate-controlling enzyme of the mevalonate pathway, responsible for the biosynthesis of cholesterol. Lovastatin was developed as a drug for lowering LDL cholesterol 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.

Building C, 28-54 Percival Road, Smithfield NSW 2164, AUSTRALIA
Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com