

<b>Product Name:</b>	Lovastatin (Mevinolin)
<b>Product Number:</b>	L013
<b>CAS Number:</b>	75330-75-5
<b>Molecular Formula:</b>	$C_{24}H_{36}O_5$
<b>Molecular Weight:</b>	404.54
<b>Form:</b>	Powder
<b>Appearance:</b>	White crystalline powder
<b>Solubility:</b>	Water: 0.4 µg/mL
<b>Source:</b>	<i>Monascus Ruber</i>
<b>Optical Rotation:</b>	+234° to +338°
<b>Storage Conditions:</b>	2-8°C
<b>Description:</b>	Lovastatin is a statin prodrug commonly used to combat hypercholesterolemia. Lovastatin inhibits HMG-CoA reductase, a significant enzyme involved in the cholesterol synthesis pathway. Lovastatin is insoluble in aqueous solution.
<b>Mechanism of Action:</b>	Lovastatin is an inhibitor of 3-hydroxy-3methylglutaryl-coenzyme A reductase (HMG-CoA reductase), an enzyme that catalyzes the conversion of HMG-CoA to mevalonate
<b>Cancer Applications</b>	Research has shown that statin drugs including lovastatin have been able to inhibit melanoma cell growth when high concentrations are used.
<b>References:</b>	Eustace, A. J., and et al. "The 3-hydroxy-3-methylglutaryl-coenzyme A Reductase Inhibitors, Simvastatin, Lovastatin and Mevastatin Inhibit Proliferation and Invasion of Melanoma Cells." <i>BMC Cancer</i> 8.9 (2008): <a href="http://www.ncbi.gov">www.ncbi.gov</a> . 16 Jan. 2008. Web. 31 Aug. 2012.