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Product Information

Product ID	\$3449		O NOH
CAS No.	79902-63-9		
Chemical Name	2,2-Dimethylbutanoic acid (15,3R,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-naphthalenyl ester		
Synonym	Synvinolin, MK-733, Denan, Liponorm, Lodales, Simovil, Sinvacor, Sivastin, Zocor, Zocord		
Formula	C ₂₅ H ₃₈ O ₅	15	
Formula Wt.	418.57		
Melting Point	135-138°C	Bulk quanitites available upon request	
Purity	≥97%	Product ID	Size
Solubility	Soluble in DMSU (540 mg/ml) ethanol (160	S3449	10 mg
	mg/mL), methanol (200	S3449	25 mg
	mg/mL). Insoluble in water.	S3449	50 mg
Store Temp			
Store remp	Ambient	S3449	100 mg
Ship Temp	Ambient Ambient	S3449 S3449	100 mg 500 mg

osteoporotic, neuroprotective, cognition enhancing, antithrombotic, and anticancer chemotherapeutic activities. Clinically, simvastatin decreases levels of LDL and total cholesterol and lowers cardiovascular morbidity and mortality rates. Simvastatin decreases insulin synthesis and secretion in vitro, potentially through increasing ATP-sensitive K+ currents and inhibiting L-type Ca2+ currents. In animal models of Parkinson's disease, simvastatin upregulates expression of M1/4 muscarinic acetylcholine receptors (mAChRs), improving long-term memory. In other animal models, simvastatin increases bone mineral density, bone volume fraction, and bone microarchitecture. Additionally, simvastatin decreases platelet activation and inhibits thrombus formation in vitro and in vivo. This compound also increases expression of p27 and decreases expression of histone methyltransferase EZH2, inhibiting cellular proliferation and tumor growth in preclinical cancer models and increasing survival rates in clinical settings.

Note: This is the inactive form of the statin. To activate, add one equivalent of sodium hydroxide to convert it to the sodium form.

References Zhou J, Li W, Xie Q, et al. Effects of simvastatin on glucose metabolism in mouse MIN6 cells. J Diabetes Res. 2014;2014:376570. PMID: 24995341.

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