

## Certificate of Analysis

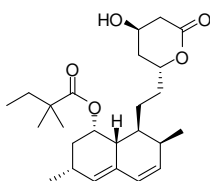
**Axon Catalogue ID:** 3443 **Batch Number:** 1

**Product Name:** Simvastatin

**Alternative Name(s):** MK733; Synvinolin

**IUPAC Name:** (1S,3R,7S,8S,8aR)-8-(2-((2R,4R)-4-Hydroxy-6-oxotetrahydro-2H-pyran-2-yl)ethyl)-3,7-dimethyl-1,2,3,7,8,8a-hexahydronaphthalen-1-yl 2,2-dimethylbutanoate

**Structure:**



**Amount:**

**CAS number(s):** 79902-63-9

**Molecular Formula:** C<sub>25</sub>H<sub>38</sub>O<sub>5</sub> **Molecular Weight:** 418.57

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**Appearance:** White solid **Observed mp:** >135 °C (decomp)

**TLC (R<sub>f</sub>):** 0.66 DCM/MeOH (9:1)

**Chemical Purity:** 99.6%

**Optical Purity (ee):** Optically pure

**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure

**Mass Spec:** Analytical data confirm chemical structure

**Microanalysis:** Calculated: C 71.74, H 9.15, N 0.00; Found: C 71.56, H 9.26, N <0.10

**Storage Conditions:** Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	41.9	>100 mM	
	EtOH	32.0	76.5	

**Remarks:**

**QC Date:** 17-8-2021

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**