

Product Name: Fluvastatin sodium

Catalog No.: 3309

Batch No.: 2

CAS Number: 93957-55-2

IUPAC Name: (±)-(3*R**,5*S**,6*E*)-7-[3-(4-Fluorophenyl)-1-(1-methylethyl)-1*H*-indol-2-yl]-3,5-dihydroxy-6-heptenoic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₅FNNaO₄·H₂O

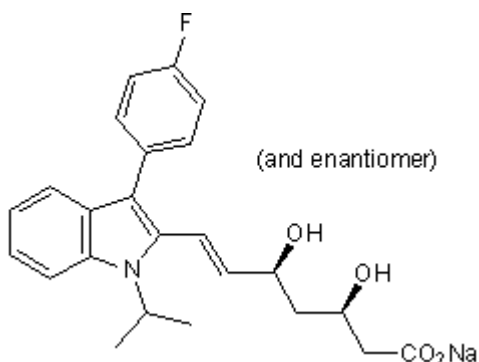
Batch Molecular Weight: 451.47

Physical Appearance: Yellow solid

Solubility: water to 25 mM
DMSO to 100 mM
ethanol to 25 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.85	6.03	3.1
Found	63.89	5.98	3.15

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Description:

Orally active, potent and competitive HMG-CoA reductase inhibitor (IC₅₀ = 40 -100 nM at human liver microsomes). Inhibits vascular smooth muscle proliferation in vitro (IC₅₀ = 70 nM) and exhibits antihypercholesterolemic and antioxidant activity in vivo.

Physical and Chemical Properties:

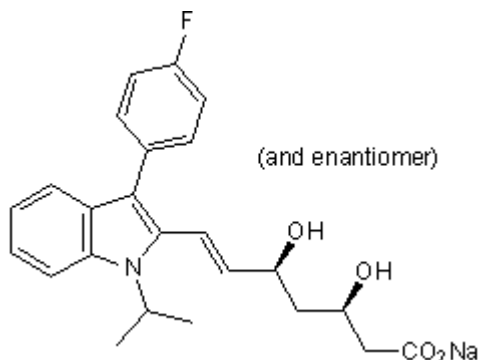
Batch Molecular Formula: C₂₄H₂₅FNNaO₄·H₂O

Batch Molecular Weight: 451.47

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 25 mM
DMSO to 100 mM
ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Dansette et al (2000) HMG-CoA reductase activity in human liver microsomes: comparative inhibition by statins. *Exp.Toxicol.Pathol.* **52** 145. PMID: 10965989.

Yamamoto et al (2001) Antioxidative effects of fluvastatin, an inhibitor of 3-hydroxy-3-methylglutaryl coenzyme A reductase, on peroxidation of phospholipid liposomes. *J.Pharm.Pharmacol.* **53** 227. PMID: 11273020.

Turner et al (2007) Comparison of the efficacies of five different statins on inhibition of human saphenous vein smooth muscle cell proliferation and invasion. *J.Cardiovasc.Pharmacol.* **50** 458. PMID: 18049315.

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