

Certificate of Analysis

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Product Name: Atorvastatin hemicalcium salt

Catalog No.: 3776

Batch No.: 2

CAS Number: 134523-03-8

IUPAC Name: (R,R)-2-(4-Fluorophenyl)-β,δ-dihydroxy-5-(1-methylethyl)-3-phenyl-4-[(phenylamino)carbonyl]-1*H*-pyrrole-1-heptanoic acid hemicalcium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₃₄FN₂O₅.½Ca.H₂O

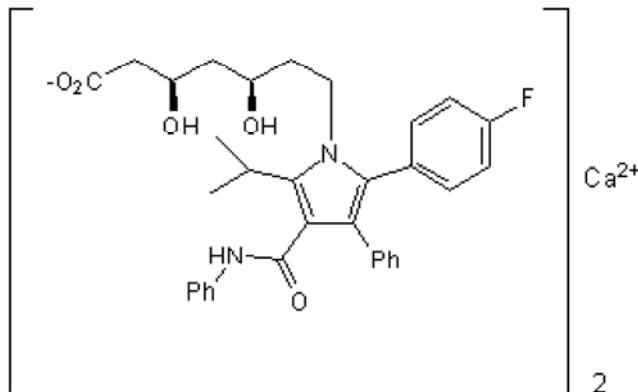
Batch Molecular Weight: 595.69

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -12 (Concentration = 1, Solvent = DMSO)

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 66.54 6.09 4.7

Found 66.48 6.19 4.67

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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Description:

Potent HMG-CoA reductase inhibitor ($IC_{50} = 8$ nM). Reduces circulating LDL-C by inhibiting cholesterol biosynthesis and inducing expression of LDL receptors. Inhibits smooth muscle cell proliferation in vitro and exhibits antinociceptive effects in the inflammatory hypernociception model.

Physical and Chemical Properties:

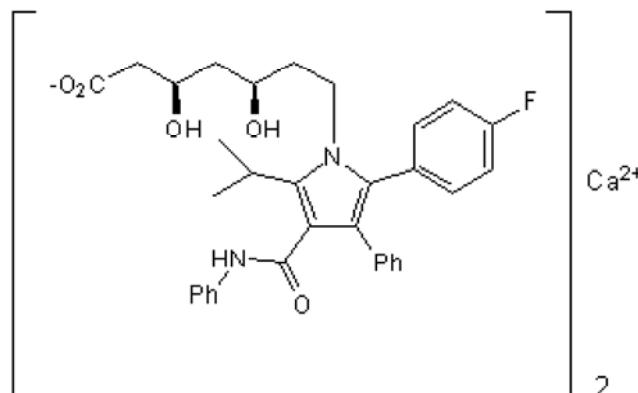
Batch Molecular Formula: $C_{33}H_{34}FN_2O_5 \cdot \frac{1}{2}Ca \cdot H_2O$

Batch Molecular Weight: 595.69

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

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

Santodomingo-Garzon et al (2006) AtoVas inhibits inflammatory hypernociception. *Br.J.Pharmacol.* **149** 14. PMID: 16865092.

Vaughan et al (2004) Update on STAT: 2003. *Circulation* **110** 886. PMID: 15313959.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

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