

Certificate of Analysis

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Product Name: Pitavastatin calcium

Catalog No.: 4942

Batch No.: 1

CAS Number: 147526-32-7

IUPAC Name: (3*R*,5*S*,6*E*)-7-[2-Cyclopropyl-4-(4-fluorophenyl)-3-quinoliny]-3,5-dihydroxy-6-heptenoic acid hemicalcium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₃FNO₄·0.5Ca·2H₂O

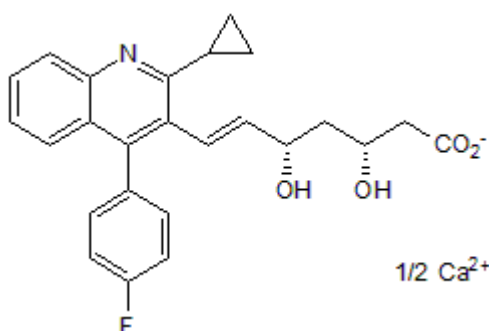
Batch Molecular Weight: 476.53

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +22.6 (Concentration = 1, Solvent = MeCN/H₂O1:1)

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	63.01	5.71	2.94
Found	62.6	5.3	3

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

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Description:

Synthetic inhibitor of HMG-CoA reductase ($K_i = 1.7$ nM). Lowers low-density lipoprotein (LDL) cholesterol levels. Displays minimal metabolism by cytochrome P450 enzymes, with little involvement of CYP3A4. Shown to improve cardiac function and survival in a rat model of hypertensive heart failure.

Physical and Chemical Properties:

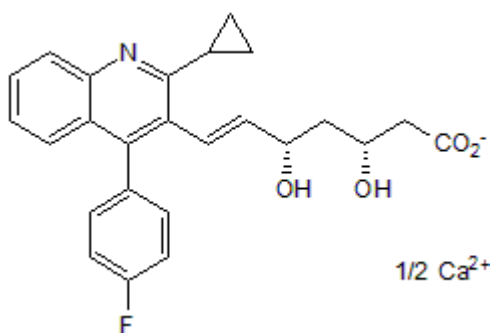
Batch Molecular Formula: $C_{25}H_{23}FNO_4 \cdot 0.5Ca \cdot 2H_2O$

Batch Molecular Weight: 476.53

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

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.

References:

Aoki et al (1997) Pharmacological profile of a novel synthetic inhibitor of 3-hydroxy-3-methylglutaryl-coenzyme A reductase. *Arzneimittelforschung*. **47** 904. PMID: 9296275.

Mukhtar et al (2005) Pitavastatin. *Int.J.Clin.Pract.* **59** 239. PMID: 15854203.

Saka et al (2006) Pitavastatin improves cardiac function and survival in association with suppression of the myocardial endothelin system in a rat model of hypertensive heart failure. *J.Cardiovasc.Pharmacol.* **47** 770. PMID: 16810078.

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