

Certificate of Analysis

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Batch No.: 1

Catalog No.: 6343

Product Name: Rosuvastatin calcium

CAS Number: 147098-20-2

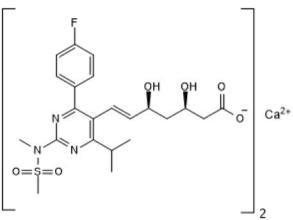
IUPAC Name: (3*R*,5*S*,6*E*)-7-[4-(4-Fluorophenyl)-6-isopropyl-2-[methyl(methylsulfonyl)amino]pyrimidin-5-yl])-3,5-dihydroxyhept-6enoic acid hemicalcium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage:

Batch Molecular Structure:

 $C_{22}H_{27}FN_3O_6S.1/_2Ca.H_2O$ 518.59 White solid DMSO to 100 mM Store at +4°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Optical Rotation: Microanalysis: Shows 99.1% purity Consistent with structure Consistent with structure $[\alpha]_D = +15.6$ (Concentration = 1, Solvent = 50% MeOH/Water) Carbon Hydrogen Nitrogen Theoretical 50.95 5.64 8.1 Found 50.73 5.58 7.93

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

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Description:

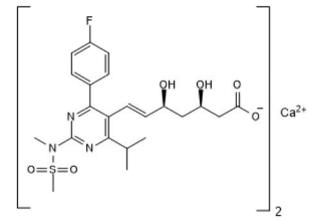
Rosuvastatin calcium is a potent HMG-CoA reductase inhibitor $(IC_{50} = 5.4 \text{ nM})$. Inhibits cholesterol synthesis in rat hepatocytes in vitro and in vivo. Reduces plasma LDL cholesterol levels. Enhances lentiviral transduction of natural killer cells. Orally bioavailable.

Physical and Chemical Properties:

Batch Molecular Formula: C22H27FN3O6S.1/2Ca.H2O Batch Molecular Weight: 518.59 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



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).

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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:

Gong et al (2020) Rosuvastatin enhances VSV-G lentiviral transduction of NK cells via upregulation of the low-density lipoprotein receptor. Mol. Ther. Methods Clin. Dev. 17 634. PMID: 32300610.

McTaggart et al (2001) Preclinical and clinical pharmacology of Rosuvastatin, a new 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitor. Am.J.Cardiol. 87 28B. PMID: 11256847.

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