

Certificate of Analysis

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Product Name: Pravastatin sodium salt

Catalog No.: 2318

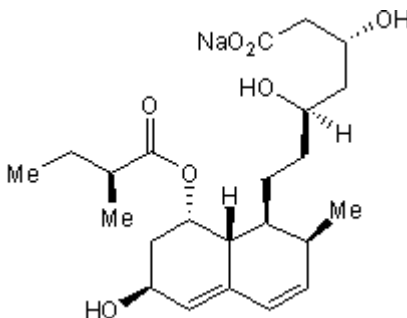
Batch No.: 3

CAS Number: 81131-70-6

IUPAC Name: ($\beta R, \delta R, 1S, 2S, 6S, 8S, 8aR$)-1,2,6,7,8,8a-Hexahydro- $\beta, \delta, 6$ -trihydroxy-2-methyl-8-[(2S)-2-methyl-1-oxobutoxy]-1-naphthaleneheptanoic acid monosodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{23}H_{35}NaO_7 \cdot 2\frac{1}{2}H_2O$
Batch Molecular Weight:	491.55
Physical Appearance:	White solid
Solubility:	water to 100 mM DMSO to 100 mM
Storage:	Desiccate at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.8% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	
	Carbon Hydrogen Nitrogen
	Theoretical 56.2 8.2
	Found 56.22 8.09

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

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Description:

Water-soluble, competitive inhibitor of 3-hydroxy-3-methyl coenzyme A (HMG-CoA) reductase. Potently blocks cholesterol synthesis in vivo ($K_i \sim 1$ nM) and displays cardioprotective properties.

Physical and Chemical Properties:

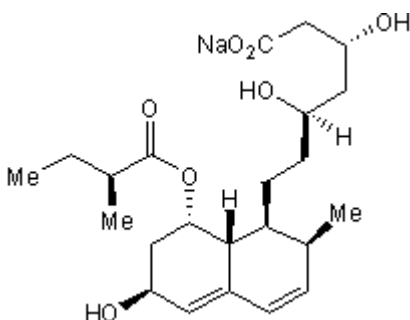
Batch Molecular Formula: $C_{23}H_{35}NaO_7 \cdot 2\frac{1}{2}H_2O$

Batch Molecular Weight: 491.55

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
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:

Hamelin and Turgeon (1998) Hydrophilicity/lipophilicity: relevance for the pharmacology and clinical effects of HMG-CoA reductase inhibitors. *TIPS* **19** 26. PMID: 9509899.

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