

**Product Name:** Pravastatin sodium salt

**Catalog No.:** 2318

**Batch No.:** 2

**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:**  $C_{23}H_{35}NaO_7 \cdot \frac{3}{4}H_2O$

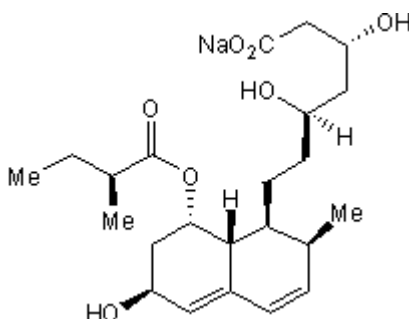
**Batch Molecular Weight:** 460.02

**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 99.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.05	8	
Found	60	7.75	

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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:**

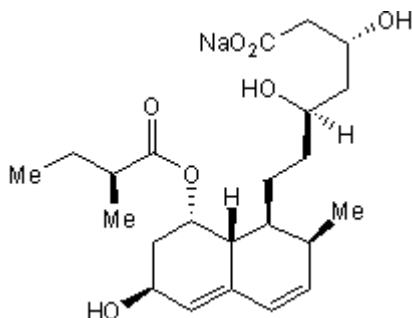
Batch Molecular Formula:  $C_{23}H_{35}NaO_7 \cdot 3/4 H_2O$

Batch Molecular Weight: 460.02

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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