Product Name: Pravastatin sodium salt
Catalog No.: 2318
Batch No.: 3
CAS Number: 81131-70-6
IUPAC Name: \((\beta R,\delta R,1S,2S,6S,8aS)-1,2,6,7,8,8a-Hexahydro-\beta,\delta,6-trihydroxy-2-methyl-8-[(2S)-2-methyl-1-oxobutoxy]-1-naphthaleneheptanoic acid monosodium salt\)

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \(\text{C}_{23}\text{H}_{35}\text{NaO}_{7.25}\text{H}_{2}\text{O}\)
   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
   \(^1\text{H NMR:}\) 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~ 1 nM) and displays cardioprotective properties.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** C\(_{22}\)H\(_{30}\)NaO\(_7\).2\(\frac{1}{2}\)H\(_2\)O  
- **Batch Molecular Weight:** 491.55  
- **Physical Appearance:** White solid  
- **Minimum Purity:** >98%

**Solubility & Usage Info:**  
- **Water to 100 mM**  
- **DMSO to 100 mM**

**Storage:** Desiccate at RT

**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:**  