**Product Data Sheet**

### Chemical Properties

**Product Name:** Fluvastatin Sodium

**Cas No.:** 93957-55-2

**M.Wt:** 433.45

**Formula:** C24H25FNNaO4

**Chemical Name:** sodium;7-[3-(4-fluorophenyl)-1-propan-2-ylindol-2-yl]-3,5-dihydroxy hept-6-enoate

**Canonical SMILES:** CC(C)N1C2=CC=CC2C(=C1C=CC(CC(=O)[O-])O)O)C3=CC=C(C=C3)F.[Na+]

**Solubility:** ≥18.15 mg/mL in DMSO, ≥16.83 mg/mL in EtOH, ≥8.22 mg/mL in H2O

**Storage:** Store at -20°C

**General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

**Shopping Condition:** Evaluation sample solution: ship with blue ice
All other available size: ship with RT, or blue ice upon request

### Biological Activity

**Targets:** Metabolism

**Pathways:** HMG-CoA Reductase

**Description:**

Fluvastatin sodium is an inhibitor of 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase [1].

Fluvastatin is a drug used to treat patients with hypercholesterolaemia. It lowers serum total cholesterol (TC) and low density lipoprotein cholesterol (LDL-C) as well as the serum apolipoprotein B. It also increases high density lipoprotein cholesterol (HDL-C) levels and
apoprotein A-I levels. In addition to these, fluvastatin has antiatherogenic, antithrombotic and antioxidant effects. In U937 human monocyte cells, fluvastatin reduces the expression of adhesion molecules thus reducing the interaction between monocytes and endothelial cells. Fluvastatin dose-dependently reduces the platelet aggregation in vitro. The administration of fluvastatin at dose of 40 mg/day to patients reduces platelet aggregation by 10 to 15% after 4 to 24 weeks. In patients with hypercholesterolaemia, fluvastatin 40 mg/day for 8 weeks can reduce copper-induced diene production in LDL-C isolated from these patients. It is also reported that, fluvastatin can inhibit the production of NO and decreases inflammatory angiogenesis induced by the sponge matrix [1, 2].

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.
NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.