



# LKT Laboratories, Inc.

## Fluvastatin Sodium

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### Product Information

**Product ID** F4482

**CAS No.** 93957-55-2

**Chemical Name** (3R,5S,6E)-rel-7-[3-(4-Fluorophenyl)-1-(1-methyl-ethyl)-1H-indol-2-yl]-3,5-dihydroxy-6-heptenoic acid sodium salt

**Synonym** Fluindostatin, XU-62-320, Lescol, Lipaxan, Primexin

**Formula** C<sub>24</sub>H<sub>25</sub>FNNaO<sub>4</sub>

**Formula Wt.** 433.45

**Melting Point** 194-197°C

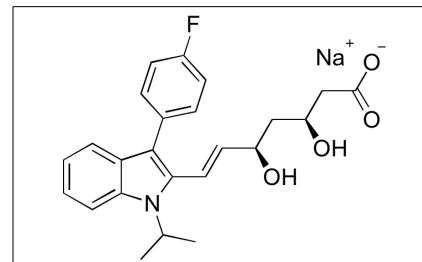
**Purity** ≥98%

**Solubility** Soluble in water (50 mM),  
methanol, ethanol, and  
DMSO (100 mM)

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Fluvastatin is an inhibitor of HMG-CoA reductase that is clinically used to lower cholesterol and treat cardiovascular disease. Fluvastatin exhibits anti-hyperlipidemic, anti-fibrotic, cardioprotective, antiviral, antithrombotic, antioxidative, vasorelaxant, anti-atherosclerotic, and anticancer activities. Fluvastatin suppresses viral load of hepatitis C virus in a clinical setting and prevents viral replication. In vitro, fluvastatin decreases platelet activation by increasing PECAM-1 signaling and inhibiting activation of Akt. Additionally, fluvastatin scavenges hydroxyl radicals in vitro. In other cellular models, fluvastatin increases expression of NO and phospholipase 2 (PLA2) and decreases levels of angiotensin II (AT II) and ROCK. Additionally, this compound induces apoptosis and G2/M phase cell cycle arrest, decreases the mitochondrial membrane potential, and increases release of cytochrome c and activation of caspase 3 in hepatocellular carcinoma cells. In animal models of cardiac distress, fluvastatin improves left ventricular function and prevent fibrosis by inhibiting RhoA and decreasing levels of CTFG and fibronectin.



**Bulk quantities available upon request**

Product ID	Size
F4482	10 mg
F4482	50 mg
F4482	100 mg

**References** Wuestenberg A, Kah J, Singethan K, et al. Matrix conditions and KLF2-dependent induction of heme oxygenase-1 modulate inhibition of HCV replication by fluvastatin. PLoS One. 2014 May 6;9(5):e96533. PMID: 24801208.

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**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.