

**Product Name:** Pravastatin sodium

**Product Number:** P093

**CAS Number:** 81131-70-6

**Molecular Formula:**  $C_{23}H_{35}O_7Na$

**Molecular Weight:** 446.5

**Appearance:** White powder

**Storage Conditions:** -20°C

**Description:** Pravastatin sodium is the salt of pravastatin, a ring-opened member of the statin family. Pravastatin is produced biosynthetically from compactin (mevastatin) by a number of microorganisms, notably Absidia, Cunninghamella, Syncephalastrum, Nocardia or Streptomyces. Typically, statins like compactin, lovastatin and simvastatin possess a  $\beta$ -hydroxy lactone ring which is a pro-drug for the readily ring-opened dihydroxyacid generally regarded as the active HMG-CoA reductase inhibitor. Importantly, the free carboxylic acid enables pravastatin to be freely water soluble within biological pH ranges.

Pravastatin sodium is soluble in ethanol, methanol, DMF, DMSO, and water.

**References:** Terahara A. US Patent 4,346,227 (1982).

Terahara A. US Patent 4,537,859 (1985).

Effect of CS-514, an inhibitor of 3-hydroxy-3-methylglutaryl coenzyme A reductase, on lipoprotein and apolipoprotein in plasma of hypercholesterolemic diabetics. Yoshino G. et al. Diabetes Res. Clin. Pract. 1986, 2, 179.

CS-514, a competitive inhibitor of 3-hydroxy-3-methylglutaryl coenzyme A reductase: tissue-selective inhibition of sterol synthesis and hypolipidemic effect on various animal species. Tsujita Y. et al. Biochim Biophys Acta 1986, 877, 50.