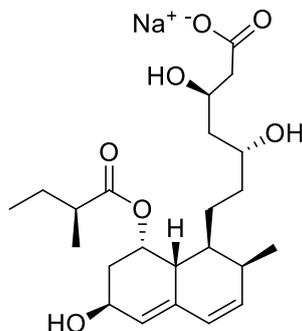


Pravastatin sodium

Code No.: **BIA-P1275**

Pack sizes: **25 mg, 100 mg**



Synonyms : Mevalotin, CS 514, SQ 3100

Specifications

CAS #	: 81131-70-6
Molecular Formula	: C ₂₃ H ₃₅ O ₇ Na
Molecular Weight	: 446.5
Source	: <i>Absidia</i> sp.
Appearance	: White powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

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 β -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.

References

1. Terahara A. US Patent 4,346,227 (1982).
2. Terahara A. US Patent 4,537,859 (1985).
3. 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.
4. 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.