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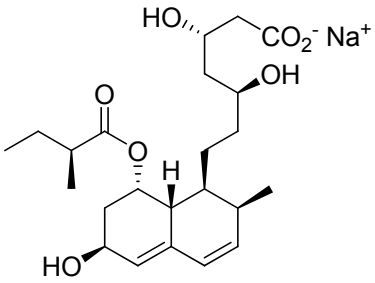
PRODUCT DATA SHEET

Pravastatin sodium

Code: **BIA-P1275**

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



Synonyms : **Mevalotin, CS 514, SQ 31000**

Specifications

CAS #	:	**81131-70-6**
Molecular Formula	:	**$C_{23}H_{35}O_7$ Na**
Molecular Weight	:	**446.5**
Source	:	***Absidia* sp.**
Appearance	:	**White powder**
Purity	:	**> 98% by HPLC**
Storage	:	**-20°C**
Solubility	:	**Soluble in water, methanol and DMSO.**

Application Notes

Pravastatin sodium is the sodium salt of pravastatin, a ring-opened member of the statin family. Pravastatin is produced biosynthetically from compactin (ML-236B) by a number of micro-organisms, 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 inhibitor. Importantly, the free carboxylic acid enables pravastatin to be freely water soluble within biological pH ranges. Pravastatin is used therapeutically to reduce LDL cholesterol.

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.

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