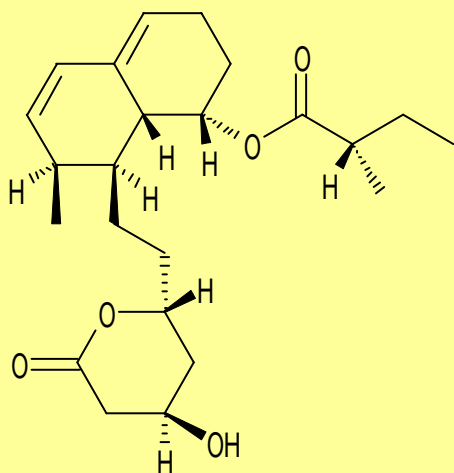


Mevastatin

Cat.# BLK0400

Structure

Origin: *Gliocladium* sp FKI-2346

CAS Registry Number: 73573-88-3

CA Index Name: Compactin
 (2S)-2-Methylbutyric Acid [(1S)-1,2,3,7,8,8a-hexahydro-7 α -methyl-8 α -[2-[(2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethyl]naphthalen-1 β -yl] Ester

Appearance: crystalline

Molecular Formula/ Weight: C₂₃H₃₄O₅=390.52

Melting Point: 151-152 Purity: >95% by HPLC

Solubility: Sol. In MeOH, EtOAc, Acetone
 Inso. In water, Hexane

Background Information:

Potent inhibitor of cholesterol biosynthesis and HMG-CoA. Anticholesterolaemic agent. HMG-CoA reductase inhibitor Compactin enhances the growth inhibitory effect of butyrate in the colorectal carcinoma cell line Caco-2.

Compactin is not used in therapy of hyperlipidemias because of multiple side effects but it is the only source for production of another statin - pravastatin.

In vitro, it has antiproliferative properties. High doses inhibit growth and proliferation of melanoma cells.

Handling and Storage:

Store at -20 .

References:

1. A. Waechtershaeuser, et. al., Carcinogenesis, **22**, 1061 (2001).
2. A. Sharon Glynn, et. al., MBC Cancer, **8**, 9 (2008).