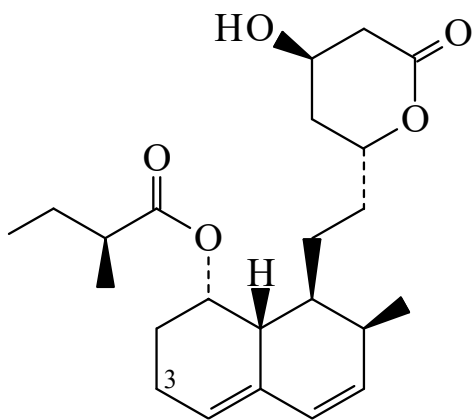




>>Entry Name: Compactin[‡]

Synonym(s): Mevastatin, INN. CS 500. ML 236B. Antibiotic ML 236B. SIPI 8915. Antibiotic SIPI 8915



CAS Registry Number: 73573-88-3

Related CAS Registry Numbers(s): 58948-09-7

Molecular Formula: C₂₃H₃₄O₅

Molecular Weight: 390.519

Accurate Mass: 390.240625

Percentage Composition: C 70.74%; H 8.78%; O 20.48%

Biological Source: Metab. of *Penicillium brevicompactum* and *Penicillium janczewskii*

Use/Importance: Potent inhibitor of cholesterol biosynthesis and HMG-CoA. Anticholesterolaemic agent

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 152°

Optical Rotation: $[\alpha]_D^{22} +283$ (c, 0.84 in Me₂CO)

Calculated Log P Data: Log P 3.56 (calc)

UV: [neutral] $\lambda_{\max}$ 231 (ϵ 21000); 237 (ϵ 25000); 246 (ϵ 16900) (MeOH) (Derep)

Fluka: 27696

Sigma: M2537

>>Derivative: 3 α -Hydroxy

Synonym(s): 3 α -Hydroxycompactin

CAS Registry Number: 85956-23-6

Molecular Formula: C₂₃H₃₄O₆

Molecular Weight: 406.518

Accurate Mass: 406.23554

Percentage Composition: C 67.96%; H 8.43%; O 23.61%

Source/Synthesis: Prod. by microbial hydroxylation

Use/Importance: More potent than parent in inhibition of cholesterol biosynth.

Physical Description: Cryst. (as Na salt)

Melting Point: Mp 141-143°

Optical Rotation: $[\alpha]_D^{22} +310.9$ (c, 0.66 in MeOH)

>>Derivative: 3 β -Hydroxy

Synonym(s): 3 β -Hydroxycompactin

CAS Registry Number: 85956-22-5

Molecular Formula: C₂₃H₃₄O₆

Molecular Weight: 406.518

Accurate Mass: 406.23554

Percentage Composition: C 67.96%; H 8.43%; O 23.61%

Source/Synthesis: Prod. by microbial hydroxylation

Use/Importance: More potent than parent in inhibition of cholesterol biosynth.

Physical Description: Cryst.

Melting Point: Mp 138-142°

Optical Rotation: $[\alpha]_D^{22} +194$ (c, 0.51 in MeOH)

>>Derivative: Deisopentanoyl

see Antibiotic ML 236A, [GQP20-W](#)