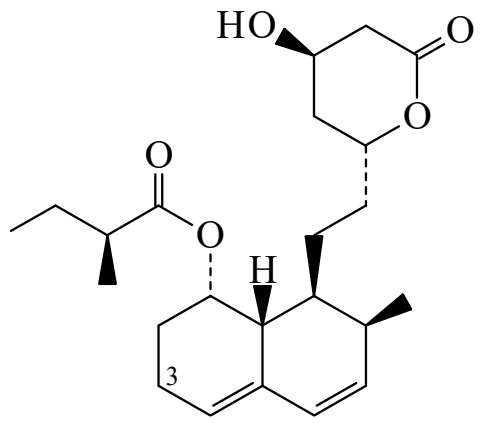
>>**Entry Name: Compactin**‡
Synonym(s): Mevastatin, INN. CS 500. ML 236B. Antibiotic ML 236B. SIPI 8915. Antibiotic SIPI 8915



CAS Registry Number: 73573-88-3
Related CAS Registry Numbers(s): 58948-09-7

Molecular Formula: $C_{23}H_{34}O_5$
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 Me_2CO)
Calculated Log P Data: Log P 3.56 (calc)
UV: [neutral] λ_{max} 231 (ε 21000); 237 (ε 25000); 246 (ε 16900) (MeOH) (Derep)

Fluka: 27696
Sigma: M2537

>>**Derivative:** 3α-Hydroxy
Synonym(s): 3α-Hydroxycompactin

CAS Registry Number: 85956-23-6
Molecular Formula: $C_{23}H_{34}O_6$
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:** 3β-Hydroxy
Synonym(s): 3β-Hydroxycompactin

CAS Registry Number: 85956-22-5
Molecular Formula: $C_{23}H_{34}O_6$
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