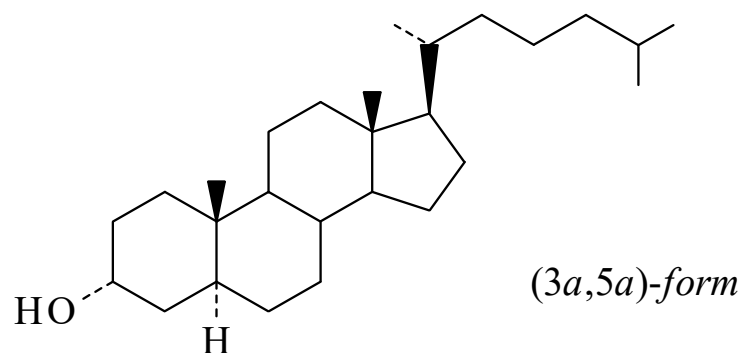




>>Entry Name: Cholestan-3-ol
ENTRY UNDER REVIEW



CAS Registry Number: 27409-41-2

Molecular Formula: C₂₇H₄₈O
Molecular Weight: 388.676
Accurate Mass: 388.370515
Percentage Composition: C 83.44%; H 12.45%; O 4.12%

>>Variant: (3 α ,5 α)-form

Synonym(s): Epicholestanol. Epidihydrocholesterin. Dihydrin. Presteron

CAS Registry Number: 516-95-0

Molecular Formula: C₂₇H₄₈O
Molecular Weight: 388.676
Accurate Mass: 388.370515
Percentage Composition: C 83.44%; H 12.45%; O 4.12%
Use/Importance: Agent for alveolar blennorrhea
Physical Description: Needles (EtOH)
Melting Point: Mp 185-186°
Optical Rotation: $[\alpha]_D^{20} +34$ (CHCl₃)
Hazard & Toxicity: Exp. reprod. and teratogenic effects (large dose)

>>Derivative: 3-O-Sulfate

Molecular Formula: C₂₇H₄₈O₄S
Molecular Weight: 468.74
Accurate Mass: 468.32733
Percentage Composition: C 69.18%; H 10.32%; O 13.65%; S 6.84%
Melting Point: Mp 136-137° (as Na salt)
Optical Rotation: $[\alpha]_D^{29} +15$ (EtOH) (as Na salt)

>>Derivative: Ac

Molecular Formula: C₂₉H₅₀O₂
Molecular Weight: 430.713
Accurate Mass: 430.38108
Percentage Composition: C 80.87%; H 11.70%; O 7.43%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 96°
Optical Rotation: $[\alpha]_D +30$ (CHCl₃)

>>Variant: (3 β ,5 α)-form

Synonym(s): Cholestanol. Zymostanol

CAS Registry Number: 80-97-7

Extra CAS Registry Numbers(s): 17608-41-2

Molecular Formula: C₂₇H₄₈O
Molecular Weight: 388.676
Accurate Mass: 388.370515
Percentage Composition: C 83.44%; H 12.45%; O 4.12%
Biological Source: Occurs in human faeces, gallstones and eggs. Also found in adrenal tissue and is prod. by sponges
Physical Description: Leaflets (EtOH)
Melting Point: Mp 142-143°