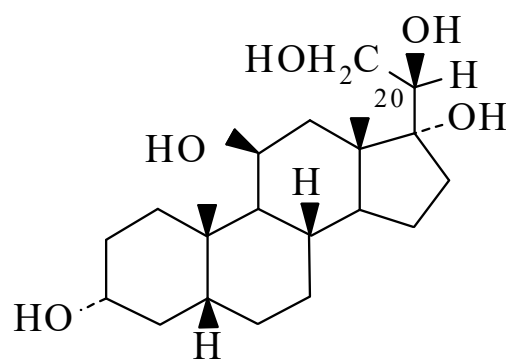




>>Entry Name: Cortol

Synonym(s): 5 β -Pregnane-3 α ,11 β ,17 α ,20,21-pentol



(20*R*)-form

Molecular Formula: C₂₁H₃₆O₅

Molecular Weight: 368.512

Accurate Mass: 368.256275

Percentage Composition: C 68.45%; H 9.85%; O 21.71%

>>Variant: (20*R*)-form

Synonym(s): β -Cortol

CAS Registry Number: 667-65-2

Molecular Formula: C₂₁H₃₆O₅

Molecular Weight: 368.512

Accurate Mass: 368.256275

Percentage Composition: C 68.45%; H 9.85%; O 21.71%

Biological Source: Constit. of human urine

Physical Description: Cryst. (MeOH/EtOAc)

Melting Point: Mp 266-269°

Optical Rotation: $[\alpha]_D^{25} +33.3$ (EtOH)

Sigma: C3882

>>Variant: (20*S*)-form

Synonym(s): α -Cortol

CAS Registry Number: 516-38-1

Molecular Formula: C₂₁H₃₆O₅

Molecular Weight: 368.512

Accurate Mass: 368.256275

Percentage Composition: C 68.45%; H 9.85%; O 21.71%

Biological Source: Constit. of human urine

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 250.5-254°

Optical Rotation: $[\alpha]_D^{26} +23.7$ (EtOH)

Sigma: C5006

>>Derivative: 3,20,21-Tri-Ac

Physical Description: Cryst. (C₆H₆/cyclohexane)

Melting Point: Mp 168-170°

Optical Rotation: $[\alpha]_D^{20} 0$

References:

Sarett, L.H. *et al.*, *J.A.C.S.*, 1949, **71**, 1169; 1951, **73**, 1777, (*synth*)

Fukushima, D.K. *et al.*, *J. Biol. Chem.*, 1955, **212**, 449, (*isol*)

Schneider, J.L. *et al.*, *J.A.C.S.*, 1955, **77**, 4184, (*isol*)