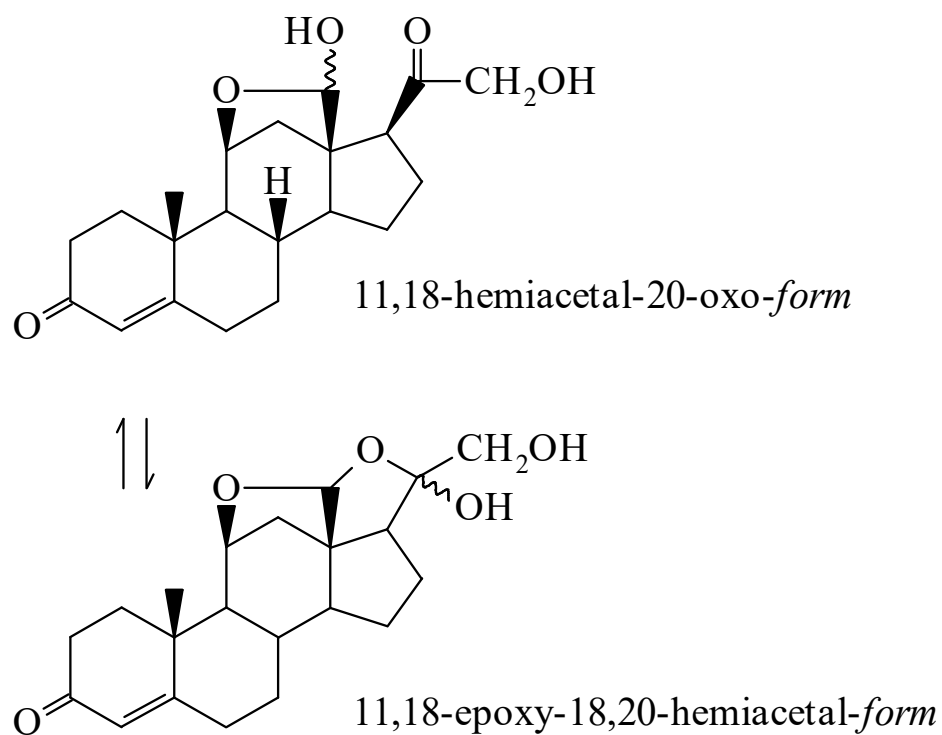




>>Entry Name: Aldosterone, BAN, INN

Synonym(s): 11 β ,21-Dihydroxy-3,20-dioxopregn-4-en-18-al. 11 β ,21-Dihydroxypregn-4-ene-3,18,20-trione. Aldocorten. Electro cortin. Oxocorticosterone. Reichstein's substance X



CAS Registry Number: 52-39-1

Molecular Formula: C₂₁H₂₈O₅

Molecular Weight: 360.449

Accurate Mass: 360.193675

Percentage Composition: C 69.98%; H 7.83%; O 22.19%

General Statement: Occurs in soln. as equilibrium mixture of the two hemiacetal forms illustrated. Both forms are mixtures of epimers (C-18 and C-20) with the less hindered predominating in each case (18*S* and 20*S* respectively)

Biological Source: Adrenal hormone highly active in control of mineral metabolism

Use/Importance: Used in association with a glucocorticoid in treatment of adrenocortical insufficiency

Physical Description: Cryst. (AcOH)

Melting Point: Mp 164-169°

Optical Rotation: $[\alpha]_D^{25} +161$ (CHCl₃)

Hazard & Toxicity: Adverse effects reported when used therapeutically

Aldrich: 23436-2

Fluka: 5521

Sigma: A6628

>>Derivative: 21-Ac

Molecular Formula: C₂₃H₃₀O₆

Molecular Weight: 402.486

Accurate Mass: 402.20424

Percentage Composition: C 68.64%; H 7.51%; O 23.85%

Melting Point: Mp 198°

Optical Rotation: $[\alpha]_D +122.7$ (CHCl₃)

>>Derivative: 18,21-Di-Ac

Molecular Formula: C₂₅H₃₂O₇

Molecular Weight: 444.524

Accurate Mass: 444.214805

Percentage Composition: C 67.55%; H 7.26%; O 25.19%

Melting Point: Mp 72-74°

>>Derivative: 17-Epimer

see 17-Isoaldosterone, [HJW91-P](#)

References: