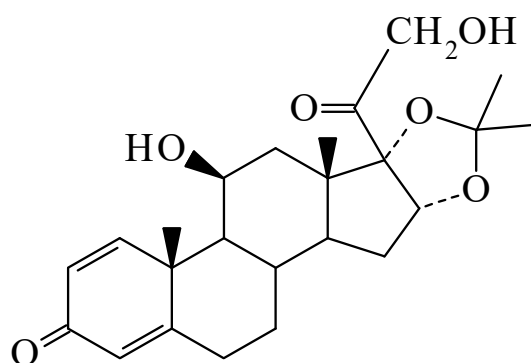




>>Entry Name: Desonide, BAN, INN, USAN

Synonym(s): 11,16,17,21-Tetrahydroxypregna-1,4-diene-3,20-dione 16,17-acetonide. 16-Hydroxyprednisolone acetonide. Prednacinolone. Tridesilon. Desfluorotriamcinolone acetonide. Many other names



CAS Registry Number: 638-94-8

Related CAS Registry Numbers(s): 25092-22-2

Molecular Formula: $C_{24}H_{32}O_6$

Molecular Weight: 416.513

Accurate Mass: 416.21989

Percentage Composition: C 69.21%; H 7.74%; O 23.05%

General Statement: Strictly, the name Desonide applies to the (11 β ,16 α)-form

Source/Synthesis: Obt. biosynthetically using *Curvularia lunata* or *Nocardia corallina*

Use/Importance: Glucocorticoid. Antiinflammatory agent

Physical Description: Plates (EtOAc/petrol)

Melting Point: Mp 274-275° (263-266°)

Optical Rotation: $[\alpha]_D^{25} +122$ (MeOH)

Calculated Log P Data: Log P 2.01 (uncertain value) (calc)

>>Derivative: 11-Ac

CAS Registry Number: 56723-11-6

Molecular Formula: $C_{26}H_{34}O_7$

Molecular Weight: 458.55

Percentage Composition: C 68.10%; H 7.47%; O 24.42%

Melting Point: Mp 133-134°

Optical Rotation: $[\alpha]_D^{25} +91$ (MeOH)

>>Derivative: 21-Ac

CAS Registry Number: 25092-25-5

Molecular Formula: $C_{26}H_{34}O_7$

Molecular Weight: 458.55

Percentage Composition: C 68.10%; H 7.47%; O 24.42%

Physical Description: Cryst. (Me₂CO/petrol)

Melting Point: Mp 249-252°

Optical Rotation: $[\alpha]_D^{25} +108$ (CHCl₃)

>>Derivative: Di-Ac

CAS Registry Number: 56723-10-5

Molecular Formula: $C_{28}H_{36}O_8$

Molecular Weight: 500.588

Percentage Composition: C 67.18%; H 7.25%; O 25.57%

Melting Point: Mp 252-253°

Optical Rotation: $[\alpha]_D^{25} +133$ (CHCl₃)

>>Derivative: 21-Phosphate

Synonym(s): Desonide phosphate

Molecular Formula: $C_{24}H_{33}O_9P$

Molecular Weight: 496.493

Accurate Mass: 496.186222

Percentage Composition: C 58.06%; H 6.70%; O 29.00%; P 6.24%

Use/Importance: Ophthalmologic glucocorticoid