

Product Name: Corticosterone

Catalog No.: 3685

Batch No.: 2

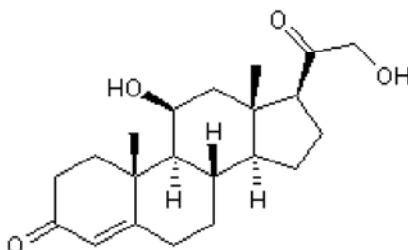
CAS Number: 50-22-6

EC Number: 200-019-6

IUPAC Name: (11 β)-11,21-Dihydroxypregn-4-ene-3,20-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₃₀O₄
Batch Molecular Weight: 346.46
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +223.3 (Concentration = 1, Solvent = Ethanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.8	8.73	
Found	72.77	8.85	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: (11 β)-11,21-Dihydroxypregn-4-ene-3,20-dione

Description:

Endogenous glucocorticoid that acts as an agonist at glucocorticoid and mineralocorticoid receptors.

Physical and Chemical Properties:

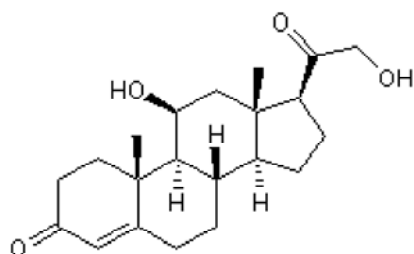
Batch Molecular Formula: C₂₁H₃₀O₄

Batch Molecular Weight: 346.46

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lu *et al* (2006) International union of pharmacology. LXV. The pharmacology and classification of the nuclear receptor superfamily: glucocorticoid, mineralocorticoid, progesterone, and androgen receptors. *Pharmacol.Rev.* **58** 782. PMID: 17132855.

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