

Certificate of Analysis

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Product Name: Corticosterone

CAS Number: 50-22-6 **IUPAC Name:** (11β)-11,21-Dihydroxypregn-4-ene-3,20-dione

Catalog No.: 3685 EC Number: 200-019-6

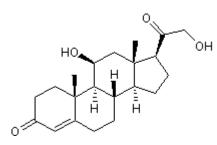
Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₂₁H₃₀O₄ 346.46 White solid DMSO to 100 mM ethanol to 10 mM Store at RT



72.87

2. ANALYTICAL DATA

Storage:

Melting Point: HPLC: ¹H NMR: Mass Spectrum: **Optical Rotation: Microanalysis:**

Between 181 - 182°C Shows 99.7% purity Consistent with structure Consistent with structure $[\alpha]_{D}$ = +225.2 (Concentration = 1, Solvent = Ethanol) Carbon Hydrogen Nitrogen Theoretical 72.8 8.73

8.75

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

Found



TOCRIS b i o s c i e n c d

Product Information

Print Date: Apr 28th 2015

Batch No.: 1

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Product Name: Corticosterone

CAS Number:	50-22-6
IUPAC Name:	(11β) -11,21-Dihydroxypregn-4-ene-3,20-dione

Description:

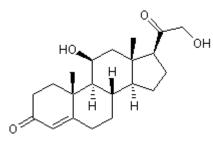
Endogenous glucocorticoid that acts as an agonist at glucocorticoid and mineralocorticoid receptors.

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).

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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 $^{\circ}$ 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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