

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** Corticosterone

**Catalog No.:** 3685

**Batch No.:** 3

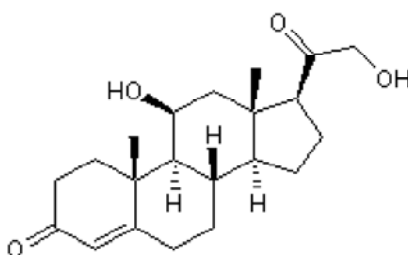
CAS Number: 50-22-6

EC Number: 200-019-6

IUPAC Name: (11 $\beta$ )-11,21-Dihydroxypregn-4-ene-3,20-dione

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>30</sub>O<sub>4</sub>.  
**Batch Molecular Weight:** 346.46  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.8	8.73	
Found	72.88	8.86	

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

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**Description:**

Corticosterone is an endogenous glucocorticoid that acts as an agonist at glucocorticoid and mineralocorticoid receptors.

**Physical and Chemical Properties:**

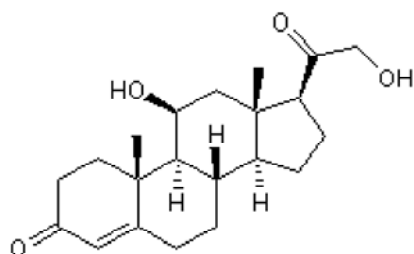
Batch Molecular Formula: C<sub>21</sub>H<sub>30</sub>O<sub>4</sub>.

Batch Molecular Weight: 346.46

Physical Appearance: White solid

**Minimum Purity:**  $\geq 99\%$

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 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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