1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{21}\text{H}_{30}\text{O}_{4}$
Batch Molecular Weight: 346.46
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 10 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
$^1\text{H NMR}$: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: $[\alpha]_D = +223.3$ (Concentration = 1, Solvent = Ethanol)
Microanalysis:

<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>72.8</td>
<td>8.73</td>
</tr>
<tr>
<td>Found</td>
<td>72.77</td>
<td>8.85</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Corticosterone  
**Catalog No.:** 3685  
**Batch No.:** 2  
**CAS Number:** 50-22-6  
**IUPAC Name:** \((11\beta)-11,21\text{-Dihydroxypregn-4-ene-3,20-dione}\)

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

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** \(C_{21}H_{30}O_4\)
- **Batch Molecular Weight:** 346.46
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**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:**

---

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