Product Name: Methylprednisolone

CAS Number: 83-43-2

IUPAC Name: 11β,17β,21-Trihydroxy-6α-methyl-1,4-pregnadiene-3,20-dione

Catalog No.: 4819  Batch No.: 1

EC Number: 201-476-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{22}H_{30}O_{5}

Batch Molecular Weight: 374.47

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>70.56</td>
<td>70.63</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>8.07</td>
<td>8.15</td>
</tr>
<tr>
<td>Nitrogen</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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**CAS Number:** 83-43-2

**IUPAC Name:** 11β,17β,21-Trihydroxy-6α-methyl-1,4-pregnadiene-3,20-dione

**Description:**

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{22}H_{30}O_{6}
- **Batch Molecular Weight:** 374.47
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**References:**

**Storage:** Store at +4°C

**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.