1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{27}\text{H}_{30}\text{Cl}_{2}\text{O}_{6} \)

Batch Molecular Weight: 521.43

Physical Appearance: White solid

Solubility: DMSO to 100 mM, ethanol to 10 mM

Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

\(^1\)H 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>62.19</td>
<td>62.2</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.8</td>
<td>5.74</td>
</tr>
<tr>
<td>Nitrogen</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Mometasone furoate

CAS Number: 83919-23-7
IUPAC Name: 11β,16α,9,21-Dichloro-11-hydroxy-16-methyl-3,20-dioxopregn-1,4-dien-17-yl 2-furoate

Description:
Potent synthetic corticosteroid; displays agonist activity at glucocorticoid and progesterone receptors. Exhibits anti-inflammatory effects.

Physical and Chemical Properties:
Batch Molecular Formula: C_{27}H_{18}Cl_{2}O_{6}
Batch Molecular Weight: 521.43
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at -20°C

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: