1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_9\text{H}_{15}\text{NO}_3 \)
Batch Molecular Weight: 185.22
Physical Appearance: White solid
Solubility: water to 100 mM phosphate buffered saline to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.2 \) (Chloroform:Methanol + NH4OH [9:1])
HPLC: Shows 100% purity
\(^1\text{H NMR:}\) 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>58.36</td>
<td>58.34</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>8.16</td>
<td>8.17</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7.56</td>
<td>7.46</td>
</tr>
</tbody>
</table>
Product Information

Product Name: PRIMA-1
CAS Number: 5608-24-2
IUPAC Name: 2,2-Bis(hydroxymethyl)-1-azabicyclo[2.2.2]octan-3-one

Description:
Selectively restores mutant p53 activity in tumor cells via activation of Bax and PUMA. Induces apoptosis and inhibits growth of tumors with mutant p53.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₆H₂₈NO₃
Batch Molecular Weight: 185.22
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
- water to 100 mM
- phosphate buffered saline 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: