1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{46}\text{H}_{58}\text{N}_{4}\text{O}_{9}\cdot\text{H}_{2}\text{SO}_{4}\cdot2\text{H}_{2}\text{O} \)

Batch Molecular Weight: 945.09

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:

![Molecular Structure](image)

2. ANALYTICAL DATA

HPLC: Shows 98% purity

\(^1\text{H} \text{NMR}: \) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>58.46</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.83</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.93</td>
</tr>
</tbody>
</table>
Product Name: Vinblastine sulfate
CAS Number: 143-67-9
IUPAC Name: Vincaleukoblastine

Description:
Anticancer agent; microtubule disrupter. Induces apoptosis in cultured hepatocytes and human lymphoma cells. Shown to inhibit autophagosome maturation.

Physical and Chemical Properties:
Batch Molecular Formula: C_{46}H_{66}N_{2}O_{8}.H_{2}SO_{4}.2H_{2}O
Batch Molecular Weight: 945.09
Physical Appearance: White solid
Minimum Purity: >95%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:
water to 100 mM
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: