1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{21}\text{H}_{21}\text{N}_{3}\text{O}_{2}\text{S} \)
Batch Molecular Weight: 379.48
Physical Appearance: White solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 98% 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>66.47</td>
<td>66.47</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.58</td>
<td>5.76</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>11.07</td>
<td>10.73</td>
</tr>
</tbody>
</table>
Description:
Potent pan Pim kinase inhibitor (IC50 values are 0.4, 1.9 and 5.0 nM for Pim-1, 3 and 2, respectively). Exhibits >43-fold higher affinity for Pim kinases over a range of other kinases. Induces cell cycle arrest and apoptosis in AML cell lines in vitro and inhibits growth of tumor xenografts in vivo. Chemosensitizer.

Physical and Chemical Properties:
Batch Molecular Formula: C21H21N3O2S
Batch Molecular Weight: 379.48
Physical Appearance: White solid
Minimum Purity: >98%
Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 20 mM with gentle warming

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: