1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{26}\text{H}_{41}\text{N}_3\text{O}_5 \)  
Batch Molecular Weight: 475.63  
Physical Appearance: White solid  
Solubility: 
- ethanol to 100 mM  
- DMSO to 100 mM  
Storage: Store at -20°C  

2. ANALYTICAL DATA

HPLC: Shows 98.9% purity  
\(^1\text{H}\) NMR: Consistent with structure  
Mass Spectrum: Consistent with structure  
Optical Rotation: \([\alpha]_D = -65.5\) (Concentration = 1, Solvent = Chloroform)  
Microanalysis: 

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>65.66</td>
<td>65.84</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>8.69</td>
<td>8.85</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.83</td>
<td>8.75</td>
</tr>
</tbody>
</table>
Description:
Potent cell-permeable inhibitor of proteasome (IC_{50} = 100 nM) and calpain (IC_{50} = 1.2 μM). Inhibits TNF-α-induced NF-κB activation and IκBα degradation. Induces neurite outgrowth in PC12 cells and has anticancer properties in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C_{20}H_{40}N_{10}O_{8}
Batch Molecular Weight: 475.63
Physical Appearance: White solid
Minimum Purity: >95%

Storage:
Store at -20°C

Solubility & Usage Info:
ethanol 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: