1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{23}\text{H}_{20}\text{FN}_{5}\text{O}_{3}\text{S} \)

Batch Molecular Weight: 465.5

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:

![Batch Molecular Structure Image]

2. ANALYTICAL DATA

TLC: \( R_f = 0.52 \) (Chloroform:Methanol [97:3])

HPLC: Shows 99.8% 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>59.34</td>
<td>59.31</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.33</td>
<td>4.3</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>15.04</td>
<td>15.1</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Description:
BTT 3033 is a selective inhibitor of integrin αβ (EC50 = 130 nM for αβ binding to collagen I). Binds to the α2I domain. Exhibits selectivity for αβ over integrins αβ1, αβ1, αβ1 and αv. BTT 3033 inhibits platelet aggregation to collagen I coated capillaries under flow and inhibits binding of αβ-expressing CHO cells to collagen I under shear stress conditions. Neurogenic and thromboxane A2-induced human prostate smooth muscle contraction are also inhibited by BTT 3033. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:
- Batch Molecular Formula: C25H20FN3O2S
- Batch Molecular Weight: 465.5
- Physical Appearance: White solid
- Minimum Purity: ≥98%
- Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
- 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: