1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{22}\text{H}_{27}\text{N}_{5}\text{O} \)

Batch Molecular Weight: 377.48

Physical Appearance: White solid

Solubility: DMSO to 25 mM

Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.27 \) (Dichloromethane:Methanol [4:1])

HPLC: Shows 99.4% purity

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

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>70</td>
<td>69.85</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.21</td>
<td>7.03</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>18.54</td>
<td>18.71</td>
</tr>
</tbody>
</table>
Description:
Orally active and specific inhibitor of human hematopoietic prostaglandin D synthase (H-PGDS) (IC$_{50}$ = 6 μM). Antiallergic and anti-inflammatory; displays antiasthmatic activity and potent antihistaminic properties in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{22}$H$_{27}$N$_{5}$O
Batch Molecular Weight: 377.48
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 25 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: