1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{23}\text{H}_{28}\text{N}_{6}\text{O}_{4} \cdot \frac{1}{4}\text{H}_{2}\text{O} \)

Batch Molecular Weight: 457.01

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.4 \) (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.7% 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 (C)</td>
<td>60.45</td>
<td>60.69</td>
</tr>
<tr>
<td>Hydrogen (H)</td>
<td>6.29</td>
<td>6.25</td>
</tr>
<tr>
<td>Nitrogen (N)</td>
<td>18.39</td>
<td>18.03</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** ONO 6818  
**Catalog No.:** 5651  
**Batch No.:** 1

**CAS Number:** 208848-19-5  
**IUPAC Name:** 5-Amino-N-[1-[5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2-yl]carbonyl]-2-methylpropyl]-6-oxo-2-phenyl-1(6H)-pyrimidineacetamide

**Description:**
High affinity and selective human neutrophil elastase 1 (HNE1) inhibitor ($K_i = 12$ nM). Exhibits >100-fold less activity at other related proteases including trypsin, pancreatic elastase, collagenase and murine macrophage elastase. Inhibits HNE-induced lung hemorrhaging and suppresses leukocyte levels in an in vivo model of COPD. Orally active.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** $C_{22}H_{29}N_6O_{14} \cdot \frac{1}{4}H_2O$
- **Batch Molecular Weight:** 457.01
- **Physical Appearance:** Off White solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at -20°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:**