Product Name: APC 366  
Catalog No.: 2511  
Batch No.: 4  
CAS Number: 158921-85-8  
IUPAC Name: N-(1-Hydroxy-2-naphthoyl)-L-arginyl-L-prolinamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{22}\text{H}_{28}\text{N}_{6}\text{O}_{4} \)
Batch Molecular Weight: 440.5
Physical Appearance: White lyophilised solid
Net Peptide Content: 79%
Counter Ion: TFA
Solubility: Soluble to 5 mg/ml in 20% ethanol / water
Storage: Store at -20°C
Peptide Sequence:

![Peptide Structure]

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

<table>
<thead>
<tr>
<th>Amino Acid</th>
<th>Theoretical</th>
<th>Actual</th>
</tr>
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<tbody>
<tr>
<td>Ala</td>
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<tr>
<td>Arg</td>
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<td>Leu</td>
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<td>Val</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Information**

**Product Name:** APC 366  
**Catalog No.:** 2511  
**Batch No.:** 4

**CAS Number:** 158921-85-8  
**IUPAC Name:** \(N\)-(1-Hydroxy-2-naphthoyl)-L-arginyl-L-prolinamide

**Description:**
Selective inhibitor of mast cell tryptase (\(K_i = 7.1 \mu M\)) that inhibits tryptase-induced histamine release from human tonsil and lung cells. Reduces airway inflammation and blocks postchallenge airway hyperresponsiveness in vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** \(C_{22}H_{28}N_6O_4\)
- **Batch Molecular Weight:** 440.5
- **Physical Appearance:** White lyophilised solid

**Peptide Sequence:**

\[
\text{\begin{align*}
\text{HN} & \text{NH} \\
\text{NH} & \text{NH} \\
\text{OH} & \text{O} \\
\text{N} & \text{NH} \\
\text{O} & \text{NH}_2 \\
\end{align*}}
\]

**Storage:** Store at -20°C

**Solubility & Usage Info:**
Soluble to 5 mg/ml in 20% ethanol / water

**Net Peptide Content:** 79% (Remaining weight made up of counterions and residual water).

**Counter Ion:** TFA

**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).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μm filter to remove potential bacterial contamination whenever possible.

**References:**