

**Product Name:** APC 366

**Catalog No.:** 2511

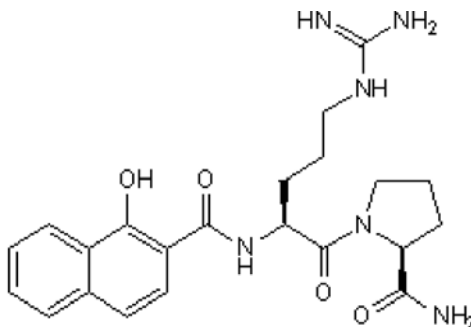
**Batch No.:** 6

CAS Number: 158921-85-8

IUPAC Name: *N*-(1-Hydroxy-2-naphthoyl)-L-arginyl-L-prolinamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>28</sub>N<sub>6</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 440.5  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** TFA  
**Solubility:** Soluble to 5 mg/ml in 20% ethanol / water  
**Storage:** Store at -20°C  
**Peptide Sequence:**



**2. ANALYTICAL DATA**

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

**3. AMINO ACID ANALYSIS DATA**

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg	1.00	1.00	Met		
Asx			Phe		
Cys			Pro	1.00	1.00
Glx			Ser		
Gly			Thr		
His			Trp		
Ile			Tyr		
Leu			Val		

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

**Product Name:** APC 366

**Catalog No.:** 2511

**6**

CAS Number: 158921-85-8

IUPAC Name: *N*-(1-Hydroxy-2-naphthoyl)-L-arginyl-L-prolinamide

**Description:**

APC 366 is a selective inhibitor of mast cell tryptase ( $K_i = 7.1 \mu\text{M}$ ) that inhibits tryptase-induced histamine release from human tonsil and lung cells. Reduces airway inflammation and blocks postchallenge airway hyperresponsiveness in vivo.

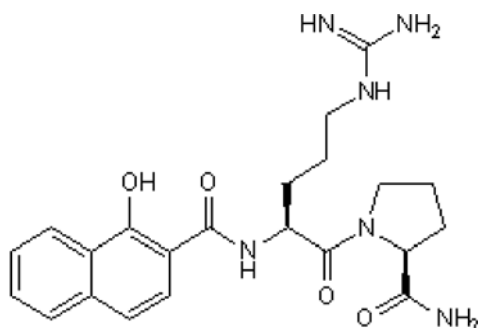
**Physical and Chemical Properties:**

Batch Molecular Formula:  $\text{C}_{22}\text{H}_{28}\text{N}_6\text{O}_4$

Batch Molecular Weight: 440.5

Physical Appearance: White lyophilised solid

**Peptide Sequence:**



**Storage:** Store at  $-20^\circ\text{C}$

**Solubility & Usage Info:**

Soluble to 5 mg/ml in 20% ethanol / 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  $45\text{-}60^\circ\text{C}$  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 as 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  $-20^\circ\text{C}$ . 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  $0.2 \mu\text{m}$  filter to remove potential bacterial contamination whenever possible.

**References:**

**He et al** (2004) Inhibitors of tryptase as mast cell-stabilizing agents in the human airways: effects of tryptase and other agonists of proteinase-activated receptor 2 on histamine release. *J.Pharmacol.Exp.Ther.* **309** 119. PMID: 14722328.

**Barrios et al** (1998) Tryptase mediates hyperresponsiveness in isolated guinea pig bronchi. *Life Sci.* **63** 2295. PMID: 9877219.

**He et al** (1998) A role for tryptase in the activation of human mast cells: modulation of histamine release by tryptase and inhibitors of tryptase. *J.Pharmacol.Exp.Ther.* **286** 289. PMID: 9655871.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956