

Certificate of Analysis

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Product Name: APC 366

Catalog No.: 2511

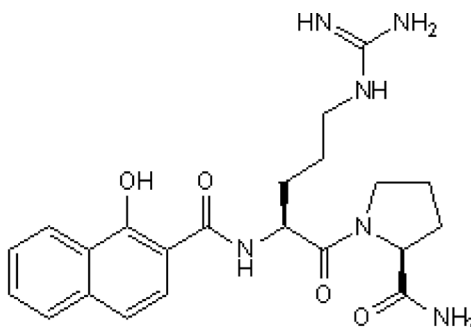
Batch No.: 6

CAS Number: 158921-85-8

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₈N₆O₄
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 99.2% 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

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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.

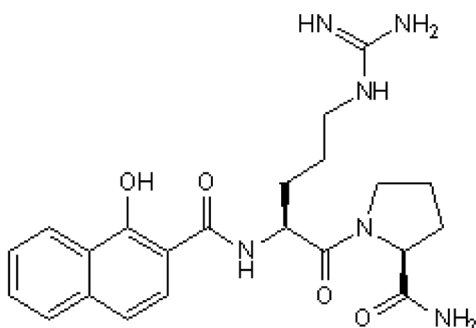
Physical and Chemical Properties:

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°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°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.

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