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Print Date: Nov 9th 2017

Certificate of Analysis

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Product Name: **Lyn peptide inhibitor** **Catalog No.: 2265** **Batch No.: 3**

CAS Number: 222018-18-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{115}H_{184}N_{30}O_{24}$

Batch Molecular Weight: 2370.91

Physical Appearance: White lyophilised solid

Net Peptide Content: 69%

Counter Ion: TFA

Solubility: Soluble to 10 mg/ml in water

Storage: Desiccate at -20°C

Peptide Sequence: Octadecanoyl-Tyr-Gly-Tyr-Arg-Leu-Arg-Arg-Lys-Trp-Glu-Glu-Lys-Ile-Pro-Asn-Pro-NH_2

2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	2.00	2.02
Arg	3.00	2.78	Met		
Asx	1.00	1.04	Phe		
Cys			Pro	2.00	1.96
Glx	2.00	1.99	Ser		
Gly	1.00	1.01	Thr		
His			Trp		
Ile	1.00	0.98	Tyr	2.00	2.16
Leu	1.00	0.93	Val		

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Product Name: **Lyn peptide inhibitor** **Catalog No.: 2265** **Batch No.: 3**

CAS Number: 222018-18-0

Description:

Cell-permeable inhibitor of Lyn-dependent effects of the IL-5 receptor. Blocks binding of Lyn tyrosine kinase to βc subunit of IL-3/GM-CSF/IL-5 receptors, blocking Lyn activation. Inhibits IL-5 receptor-mediated eosinophil differentiation and survival in vitro. Inhibits airway eosinophilic inflammation in mouse model of asthma.

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Octadecanoyl-Tyr-Gly-Tyr-Arg-Leu-Arg-Arg-Lys-Trp-Glu-Glu-Lys-Ile-Pro-Asn-Pro-NH_2

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 10 mg/ml in water

Net Peptide Content: 69% (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:

Adachi *et al* (1999) The mapping of the Lyn kinase binding site of the common β subunit of IL-3/granulocyte-macrophage colony-stimulating factor/IL-5 receptor. J.Immunol. ***162*** 1496. PMID: 9973406.

Adachi *et al* (1999) A novel lyn-binding peptide inhibitor blocks eosinophil differentiation, survival, and airway eosinophilic inflammation. J.Immunol. ***163*** 939. PMID: 10395690.