# TOCRIS a biotechne brand

#### Print Date: Jan 14th 2016

# **Certificate of Analysis**

## www.tocris.com

Catalog No.: 3841 Batch No.: 2

Product Name: RETF-4NA CAS Number: 1160928-63-1

# 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Net Peptide Content: Counter Ion: Solubility: Storage: Peptide Sequence:  $C_{32}H_{43}N_9O_{10}$ 713.75 White lyophilised solid 80% TFA Soluble to 2 mg/ml in 20% acetonitrile / water Store at -20°C Ac-Arg-Glu-Thr-Phe-N

## 2. ANALYTICAL DATA

HPLC: Mass Spectrum: Shows 98% purity Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg	1.00	1.09	Met		
Asx			Phe	1.00	1.05
Cys			Pro		
Glx	1.00	0.96	Ser		
Gly			Thr	1.00	0.90
His			Trp		
lle			Tyr		
Leu			Val		

 $NO_2$ 

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

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Batch No.: 2

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Product Name: RETF-4NA

CAS Number:

**Description:** 

1160928-63-1

Chymase substrate peptide that is cleaved more avidly by  $\alpha_2$ -

macroglobulin-bound chymase than the free, unbound form.

Displays selectivity over cathepsin G and chymotrypsin.

## Solubility & Usage Info:

Soluble to 2 mg/ml in 20% acetonitrile / water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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Net Peptide Content: 80% (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 Nterminal 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:**

Raymond et al (2009) α<sub>2</sub>-macroglobulin capture allows detection of mast cell chymase in serum and creates a reservoir of angiotensin II-generated activity. J.Immunol. 182 5770. PMID: 19380825.

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## **Physical and Chemical Properties:** Batch Molecular Formula: C<sub>32</sub>H<sub>43</sub>N<sub>9</sub>O<sub>10</sub> Batch Molecular Weight: 713.75 Physical Appearance: White lyophilised solid

#### **Peptide Sequence:**

Ac-Arg-Glu-Thr-Phe—N `NO2

# Storage: Store at -20°C