

Certificate of Analysis

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Product Name: tcY-NH₂
CAS Number: 327177-34-4

Catalog No.: 1488 **Batch No.:** 10

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₀H₄₉N₇O₇
Batch Molecular Weight: 739.87
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: *trans*-Cinnamoyl-Tyr-Pro-Gly-Lys-Phe-NH₂

2. ANALYTICAL DATA

HPLC: Shows 99% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys	1.00		0.99
Arg				Met			
Asx				Phe	1.00		1.02
Cys				Pro	1.00		1.01
Glx				Ser			
Gly	1.00		1.00	Thr			
His				Trp			
Ile				Tyr	1.00		0.98
Leu				Val			

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

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Product Name: tcY-NH₂**Catalog No.:** 1488**Batch No.:** 10

CAS Number: 327177-34-4

Description:

tcY-NH₂ is a selective PAR₄ antagonist peptide. Inhibits endostatin release and platelet aggregation induced by thrombin.

Physical and Chemical Properties:Batch Molecular Formula: C₄₀H₄₉N₇O₇

Batch Molecular Weight: 739.87

Physical Appearance: White lyophilised solid

Peptide Sequence:*trans*-Cinnamoyl-Tyr-Pro-Gly-Lys-Phe-NH₂**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in 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.

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 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 µm filter to remove potential bacterial contamination whenever possible.

References:

Hollenberg *et al* (2004) Proteinase-activated receptor-4: evaluation of tethered ligand-derived peptides as probes for receptor function and as inflammatory agonists *in vivo*. *Br.J.Pharmacol.* **143** 443. PMID: 15451771.

Hollenberg and Saifeddine (2001) Proteinase-activated receptor 4 (PAR4): activation and inhibition of rat platelet aggregation by PAR4-derived peptides. *Can.J.Physiol.Pharmacol.* **79** 439. PMID: 11405248.

Ma *et al* (2001) Thrombin-induced platelet endostatin release is blocked by a proteinase activated receptor-4 (PAR4) antagonist. *Br.J.Pharmacol.* **134** 701. PMID: 11606309.

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