

Certificate of Analysis

Print Date: Mar 7th 2019

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Product Name: TAT 14 Catalog No.: 4811 Batch No.: 3

CAS Number: 1362661-34-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{137}H_{230}N_{48}O_{39}$

Batch Molecular Weight: 3173.6

Physical Appearance: White lyophilised solid

Net Peptide Content: 68% Counter Ion: TFA

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Tyr-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-

Arg-Leu-Gln-Leu-Asp-Glu-Glu-Thr-Gly-Glu-

Phe-Leu-Pro-Ile-GIn

2. ANALYTICAL DATA

HPLC: Shows 97% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	2.00	1.96
Arg	6.00	5.81	Met		
Asx	1.00	0.98	Phe	1.00	1.01
Cys			Pro	1.00	1.12
Glx	6.00	6.08	Ser		
Gly	2.00	1.98	Thr	1.00	1.05
His			Trp		
lle	1.00	1.01	Tyr	1.00	1.00
Leu	3.00	3.00	Val		

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Product Information

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CAS Number: 1362661-34-4

Description:

Nrf2 activator; inhibits Nrf2/Keap1 interaction. Induces upregulation of Nrf2 pathway downstream gene expression including heme-oxygenase 1. Suppresses LPS-induced TNF- α expression in THP-1 cells.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{137}H_{230}N_{48}O_{39}$

Batch Molecular Weight: 3173.6

Physical Appearance: White lyophilised solid

Peptide Sequence:

Tyr-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Leu-Gln-Leu-Asp-Glu-Glu-Thr-Gly-Glu-Phe-Leu-Pro-IIe-Gln **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.

Net Peptide Content: 68% (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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Steel *et al* (2012) Anti-inflammatory effect of a cell-penetrating peptide targeting the Nrf2/Keap1 interaction. ACS Med.Chem.Lett. **3** 407. PMID: 22582137.

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