

# **Certificate of Analysis**

Print Date: Oct 9th 2019

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Product Name: R8-T198wt Catalog No.: 4592 Batch No.: 1

CAS Number: 2305815-72-7

# 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>111</sub>H<sub>211</sub>N<sub>59</sub>O<sub>26</sub>S

Batch Molecular Weight: 2820.33

Physical Appearance: White lyophilised solid

Net Peptide Content: 64%
Counter Ion: TFA

**Solubility:** Soluble to 2 mg/ml in 20% acetonitrile / water

Storage: Store at -20°C

Arg-Gly-Cys-Lys-Lys-Pro-Gly-Leu-Arg-Arg-

Arg-Gln-Thr

2. ANALYTICAL DATA

**HPLC:** Shows 98% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	l Theoretical	Actual	Amino Acid	Theoretical	Actua
Ala			Lys	2.00	2.12
Arg	11.00	10.76	Met		
Asx			Phe		
Cys			Pro	1.00	0.99
Glx	1.00	1.03	Ser		
Gly	5.00	4.85	Thr	1.00	0.84
His			Trp		
lle			Tyr		
Leu	1.00	1.01	Val		

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

www.tocris.com/distributors Tel:+1 612 379 2956



# **Product Information**

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CAS Number: 2305815-72-7

## **Description:**

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>111</sub>H<sub>211</sub>N<sub>59</sub>O<sub>26</sub>S Batch Molecular Weight: 2820.33

Physical Appearance: White lyophilised solid

## **Peptide Sequence:**

Gly-Gly-Gly-Arg-Arg-Arg-Arg-Arg-Arg-Arg-Arg-Gly-Cys-Lys-Lys-Pro-Gly-Leu-Arg-Arg-Arg-Gln-Thr

Storage: Store at -20°C
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.

**Net Peptide Content:** 64% (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  $\mu$ m filter to remove potential bacterial contamination whenever possible.

# References:

**Morishita** *et al* (2011) Cell-permeable carboxyl-terminal p27<sup>Kip1</sup> peptide exhibits anti-tumor activity by inhibiting Pim-1 kinase. J.Biol.Chem. **286** 2681. PMID: 21062737.

Tel: +86 (21) 52380373