

Certificate of Analysis

Product Name: WL 47 - dimer

Catalog No.: 5978

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₈₀ H ₁₃₀ N ₂₄ O ₁₈ S ₄
Batch Molecular Weight:	1844.3
Physical Appearance:	White lyophilised solid
Net Peptide Content:	81%
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Cys-Ser-Trp-Met-Arg-Leu-Lys Cys-Ser-Trp-Met-Arg-Leu-Lys

2. ANALYTICAL DATA

HPLC:	Shows 97.3% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	2.00	1.98
Arg	2.00	2.00	Met	2.00	2.00
Asx			Phe		
Cys			Pro		
Glx			Ser	2.00	2.02
Gly			Thr		
His			Trp		
Ile			Tyr		
Leu	2.00	2.00	Val		

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

Product Name: WL 47 - dimer**Catalog No.:** 5978**Batch No.:** 1**Description:**

High affinity caveolin-1 (CAV1) ligand ($K_d = 23$ nM); disrupts caveolin-1 oligomers. Exhibits selectivity for CAV1 over BSA, casein and HEWL.

Physical and Chemical Properties:Batch Molecular Formula: $C_{80}H_{130}N_{24}O_{18}S_4$

Batch Molecular Weight: 1844.3

Physical Appearance: White lyophilised solid

Peptide Sequence:

Cys-Ser-Trp-Met-Arg-Leu-Lys

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Cys-Ser-Trp-Met-Arg-Leu-Lys**Storage:** Store at $-20^{\circ}C$ **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: 81% (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 $45-60^{\circ}C$ 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 $-20^{\circ}C$. 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.

Licensing Information:

Sold with kind permission of Professor Gregory Weiss

References:**Gilliam** *et al* (2016) Affinity-Guided Design of Caveolin-1 Ligands for Deoligomerization. *J.Med.Chem.* **59** 4019. PMID: 27010220.

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