

Certificate of Analysis

Product Name: WRW4
CAS Number: 878557-55-2

Catalog No.: 2262 **Batch No.:** 15

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₁H₆₅N₁₅O₆
Batch Molecular Weight: 1104.28
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Trp-Arg-Trp-Trp-Trp-Trp-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys			
Arg	1.00		1.00	Met			
Asx				Phe			
Cys				Pro			
Glx				Ser			
Gly				Thr			
His				Trp	5.00		Not Detected
Ile				Tyr			
Leu				Val			

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

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Description:

WRW4 is a selective antagonist of formyl peptide receptor 2 (FPR2) signaling. Inhibits WKYMVm binding to FPR2 (IC₅₀ = 0.23 μM) and inhibits intracellular calcium release induced by WKYMVm, MMK 1, amyloid β42, and F peptide. Also inhibits FPR2-mediated signaling in human neutrophils; blocks chemotactic migration and superoxide generation by amyloid β42 peptide.

Physical and Chemical Properties:Batch Molecular Formula: C₆₁H₆₅N₁₅O₆

Batch Molecular Weight: 1104.28

Physical Appearance: White lyophilised solid

Peptide Sequence:Trp-Arg-Trp-Trp-Trp-NH₂**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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:

Bae *et al* (2004) Identification of peptides that antagonize formyl peptide receptor-like 1-mediated signaling. *J. Immunol.* **173** 607. PMID: 15210823.

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