

Product Name: WKYMVM
CAS Number: 187986-11-4

Catalog No.: 1799 **Batch No.:** 8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₁H₆₁N₉O₇S₂
Batch Molecular Weight: 856.11
Physical Appearance: White lyophilised solid
Net Peptide Content: 71%
Counter Ion: TFA
Solubility: Soluble to 0.60 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Trp-Lys-Tyr-Met-Val-Met-NH₂

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	1.00	1.03
Arg			Met	2.00	1.95
Asx			Phe		
Cys			Pro		
Glx			Ser		
Gly			Thr		
His			Trp	1.00	Detected
Ile			Tyr	1.00	0.98
Leu			Val	1.00	1.04

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

Product Name: WKYMVM
CAS Number: 187986-11-4**Catalog No.:** 1799 **Batch No.:** 8**Description:**

Selective agonist for the formyl peptide receptors FPR2 and FPR3, expressed on immune cells. EC₅₀ values for induction of calcium mobilization in FPR2-HL-60 cells and FPR3-HL-60 cells are 2 and 80 nM respectively.

Physical and Chemical Properties:

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Batch Molecular Weight: 856.11
Physical Appearance: White lyophilised solid

Peptide Sequence:Trp-Lys-Tyr-Met-Val-Met-NH₂**Storage:** Desiccate at -20°C**Solubility & Usage Info:**

Soluble to 0.60 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: 71% (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 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:

Christophe et al (2002) Phagocyte activation by Trp-Lys-Tyr-Met-Val-Met, acting through FPRL1 /LXA4R, is not affected by lipoxin. *Scand.J.Immunol.* **56** 470. PMID: 12410796.

Christophe et al (2001) The synthetic peptide Trp-Lys-Tyr-Met-Val-Met-NH₂ specifically activates neutrophils through FPRL1/Lipoxin A4 receptors and is an agonist for the orphan monocyte-expressed chemoattractant receptor FPRL2. *J.Biol.Chem.* **276** 21585. PMID: 11285256.

Baek et al (1996) Identification of the peptides that stimulate the phosphoinositide hydrolysis in lymphocyte cell lines from peptide libraries. *J.Biol.Chem.* **271** 8170. PMID: 8626507.

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