1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{41}\text{H}_{61}\text{N}_{9}\text{O}_{7}\text{S}_{2} \)

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

<table>
<thead>
<tr>
<th>Amino Acid Theoretical</th>
<th>Amino Acid Theoretical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ala</td>
<td>Lys</td>
</tr>
<tr>
<td>Arg</td>
<td>Met</td>
</tr>
<tr>
<td>Asx</td>
<td>Phe</td>
</tr>
<tr>
<td>Cys</td>
<td>Pro</td>
</tr>
<tr>
<td>Glx</td>
<td>Ser</td>
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<tr>
<td>Gly</td>
<td>Thr</td>
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<tr>
<td>His</td>
<td>Trp</td>
</tr>
<tr>
<td>Ile</td>
<td>Tyr</td>
</tr>
<tr>
<td>Leu</td>
<td>Val</td>
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<table>
<thead>
<tr>
<th>Amino Acid Theoretical Actual</th>
<th>Amino Acid Theoretical Actual</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.98</td>
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<tr>
<td>1.00</td>
<td>1.04</td>
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</table>
**Product Name:** WKYMVM  
**CAS Number:** 187986-11-4

**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:**  
Batch Molecular Formula: C₅₀H₆₁N₁₂O₁₁S₂  
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 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:**  