1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{75}\text{H}_{123}\text{N}_{19}\text{O}_{18}\text{S} \)
Batch Molecular Weight: 1610.97
Physical Appearance: White lyophilised solid
Net Peptide Content: 82%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in 25% ethanol / water
Storage: Store at -20°C
Peptide Sequence: Lcu-C1u-Ser-I1c-Phe-Arg-Ser-Lcu-Lcu-Phe-Arg-Val-Met

2. ANALYTICAL DATA

HPLC: Shows 96% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

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<tr>
<th>Amino Acid</th>
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<th>Actual</th>
<th>Amino Acid</th>
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Description:
Potent and selective human formyl peptide receptor FPR2 agonist (EC50 values are 1, 2 and > 10 000 nM at mFPR2, hFPR2 and hFPR1 respectively). Induces migration of human monocytes and neutrophils via a chemotactic mechanism and enhances production of proinflammatory cytokines IL-1β and IL-6. Also activates the neutrophil superoxide-generating NADPH-oxidase. DMSO is not recommended as a solvent for this peptide.

Physical and Chemical Properties:
Batch Molecular Formula: C76H123N19O18S
Batch Molecular Weight: 1610.97
Physical Appearance: White lyophilised solid

Peptide Sequence:
Lcu-C1u-Scr-Ile-Phe-Arg-Scr-Lcu-Lcu-Phe-Arg-Val-Met

Storage: Store at -20°C

Solubility & Usage Info:
Soluble to 1 mg/ml in 25% ethanol / 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.

DMSO is not recommended as a solvent for this peptide.

Net Peptide Content: 82% (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: