1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{31}N_3O_5S$
Batch Molecular Weight: 437.55
Physical Appearance: White solid
Solubility: Soluble to 4 mg/ml in DMSO
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
Mass Spectrum: Consistent with structure
Product Name: N-Formyl-Met-Leu-Phe
Catalog No.: 1921
Batch No.: 3

Description:
N-Formyl-Met-Leu-Phe is an endogenous chemotactic peptide and agonist for the formyl peptide receptor 1 (FPR1) (Kᵢ = 38 nM). Stimulates aggregation of leukocytes.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₈H₂₃N₂O₅S
Batch Molecular Weight: 437.55
Physical Appearance: White solid

Peptide Sequence:

Storage: Store at -20°C

Solubility & Usage Info:
Soluble to 4 mg/ml in DMSO
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.

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: