1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{220}H_{346}N_{70}O_{40} \)
Batch Molecular Weight: 4719.7
Physical Appearance: White lyophilised solid
Net Peptide Content: 90%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Arg-Arg-Arg-Pro-Arg-Pro-Pro-Tyr-Leu-Pro-Arg-Pro-Arg-Pro-Pro-Phe-Phe-Pro-Pro-
\( \text{Arg Leu Pro Pro Arg Ile Pro Pro Gly Phe Pru-Pru-Arg-Phe-Pru-Pru-Arg-Phe-Pru-NH}_2 \)

2. ANALYTICAL DATA

HPLC: Shows >95% purity
Mass Spectrum: Consistent with structure
Product Name: PR 39 (porcine)
CAS Number: 139637-11-9

Description:
Antibacterial peptide. Stimulates angiogenesis and inhibits-inflammatory responses by selectively blocking proteasome
degradation of IκBα.

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Peptide Sequence:
Arg-Arg-Arg-Pro-Arg-Pro-Pro-Tyr-Leu-Pro-
Arg-Pro-Arg-Pro-Pro-Phe-Phe-Pro-Pro-
Arg Leu Pro Pro Arg Ile Pro Pro Gly Phe
Pru-Pru-Arg-Phi-S-Pru-Pru-Arg-Phi-S-Pru-NH_2

Storage: Desiccate at -20°C

Solubility & Usage Info:
Soluble to 1 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: 90% (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:

Biochemistry 42 8663. PMID: 12873125.
