1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{208}\text{H}_{344}\text{N}_{60}\text{O}_{63}\text{S}_{2} \)

Batch Molecular Weight: 4758

Physical Appearance: White lyophilised solid

Net Peptide Content: 75.5%

Counter Ion: TFA

Solubility: Soluble to 1.10 mg/ml in water

Storage: Desiccate at -20°C


2. ANALYTICAL DATA

HPLC: Shows 95.2% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

<table>
<thead>
<tr>
<th>Amino Acid</th>
<th>Theoretical</th>
<th>Actual</th>
<th>Amino Acid</th>
<th>Theoretical</th>
<th>Actual</th>
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<td>Val</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** CRF (human, rat)  
**CAS Number:** 86784-80-7

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**Description:**
Endogenous peptide agonist for the CRF receptor (Kᵢ values are 11, 44 and 38 nM for hCRF₁, rCRF₂α and mCRF₂β respectively). Stimulates the synthesis and release of ACTH from the anterior pituitary.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₀₀H₃₄₄N₆₀O₆₃S₂
- **Batch Molecular Weight:** 4758
- **Physical Appearance:** White lyophilised solid

**Peptide Sequence:**

**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**
Soluble to 1.10 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:** 75.5% (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.

**Licensing Information:**
Sold with the permission of the SALK Institute

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**References:**

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