

Certificate of Analysis

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Product Name: α -helical CRF 9-41

Catalog No.: 1184

Batch No.: 12

CAS Number: 90880-23-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆₆H₂₇₄N₄₆O₅₃S₂
Batch Molecular Weight: 3827
Physical Appearance: White lyophilised solid
Counter Ion: Acetate
Solubility: Soluble to 1 mg/ml in 0.1M NH₄OH
Storage: Store at -20°C
Peptide Sequence: Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Glu-Met-
 Leu-Glu-Met-Ala-Lys-Ala-Glu-Gln-Glu-Ala-
 Glu-Gln-Ala-Ala-Leu-Asn-Arg-Leu-Leu-Leu-
 Glu-Glu-Ala-NH₂

2. ANALYTICAL DATA

HPLC: Shows 95.0% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	6.00	5.93	Lys	1.00	1.02
Arg	2.00	2.06	Met	2.00	2.04
Asx	2.00	1.95	Phe	1.00	1.05
Cys			Pro		
Glx	9.00	9.02	Ser		
Gly			Thr	1.00	0.92
His	1.00	1.07	Trp		
Ile			Tyr		
Leu	8.00	7.86	Val		

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: α -helical CRF 9-41

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Description:

α -helical CRF 9-41 is a corticotropin-releasing factor receptor antagonist (K_i values are 17, 5 and 0.97 at human CRF₁, rat CRF_{2 α} and mouse CRF_{2 β} receptors respectively).

Physical and Chemical Properties:

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Physical Appearance: White lyophilised solid

Peptide Sequence:

Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Glu-Met-
Leu-Glu-Met-Ala-Lys-Ala-Glu-Gln-Glu-Ala-
Glu-Gln-Ala-Ala-Leu-Asn-Arg-Leu-Leu-Leu-
Glu-Glu-Ala-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 0.1M NH₄OH

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.

Counter Ion: Acetate

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 as 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 μ m filter to remove potential bacterial contamination whenever possible.

Licensing Information:

Sold with the permission of the SALK Institute

References:

Perrin and Vale (1999) Corticotropin releasing factor receptors and their ligand family. *Ann.N.Y.Acad.Sci.* **885** 312. PMID: 10816663.

Kask et al (1997) Alpha-helical(9-41) reverts anxiogenic-like effect of NPY Y₁ receptor antagonist BIBP3226. *NeuroReport* **8** 3645. PMID: 9427342.

Swerdlow et al (1989) Potentiation of acoustic startle by corticotropin-releasing factor (CRF) and by fear are both reversed by α -helical CRF (9-41). *Neuropsychopharmacology* **2** 285. PMID: 2610824.

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