

Certificate of Analysis

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Product Name: CRF (human, rat)

Catalog No.: 1151

Batch No.: 33

CAS Number: 86784-80-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀₈ H ₃₄₄ N ₆₀ O ₆₃ S ₂
Batch Molecular Weight:	4758
Physical Appearance:	White lyophilised solid
Counter Ion:	TFA
Solubility:	Soluble to 1.10 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Ser-Glu-Glu-Pro-Pro-Ile-Ser-Leu-Asp-Leu- Thr-Phe-His-Leu-Leu-Arg-Glu-Val-Leu-Glu- Met-Ala-Arg-Ala-Glu-Gln-Leu-Ala-Gln-Gln-Ala- His-Ser-Asn-Arg-Lys-Leu-Met-Glu-Ile-Ile-NH ₂

2. ANALYTICAL DATA

HPLC:	Shows 99.0% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	4.00	3.75	Lys	1.00	0.94
Arg	3.00	3.04	Met	2.00	2.10
Asx	2.00	2.03	Phe	1.00	1.05
Cys			Pro	2.00	2.01
Glx	9.00	8.95	Ser	3.00	2.96
Gly			Thr	1.00	0.99
His	2.00	2.01	Trp		
Ile	3.00	3.16	Tyr		
Leu	7.00	6.29	Val	1.00	0.84

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

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Product Name: CRF (human, rat)

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CAS Number: 86784-80-7

Description:

CRF (human, rat) is an endogenous peptide agonist for the CRF receptor (K_i values are 11, 44 and 38 nM for hCRF₁, rCRF_{2a} and mCRF_{2b} respectively). Stimulates the synthesis and release of ACTH from the anterior pituitary.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀₈H₃₄₄N₆₀O₆₃S₂

Batch Molecular Weight: 4758

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ser-Glu-Glu-Pro-Pro-Ile-Ser-Leu-Asp-Leu-
Thr-Phe-His-Leu-Leu-Arg-Glu-Val-Leu-Glu-
Met-Ala-Arg-Ala-Glu-Gln-Leu-Ala-Gln-Gln-Ala-
His-Ser-Asn-Arg-Lys-Leu-Met-Glu-Ile-Ile-NH₂

Storage: Store 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.

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 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 µm filter to remove potential bacterial contamination whenever possible.

Licensing Information:

Sold with the permission of the SALK Institute

References:

Perrin *et al* (1999) Comparison of an agonist, urocortin, and an antagonist, astressin, as radioligands for characterization of corticotropin-releasing factor receptors. *J.Pharmacol.Exp.Ther.* **288** 729. PMID: 9918582.

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

Rivier *et al* (1986) Mediation by cortico. releasing factor (CRF) of adenohipophysial hormone secretion. *Annu.Rev.Physiol.* **48** 475. PMID: 2871808.

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