

Certificate of Analysiswww.tocris.com**Product Name:** CRF (human, rat)**Catalog No.:** 1151**Batch No.:** 35

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-NH ₂

2. ANALYTICAL DATA**HPLC:** Shows 98.0% purity**Mass Spectrum:** Consistent with structure**3. AMINO ACID ANALYSIS DATA**

	Theoretical	Actual	Theoretical	Actual
Ala	4.00	3.84	Lys	1.00
Arg	3.00	3.04	Met	2.00
Asx	2.00	2.04	Phe	1.00
Cys			Pro	2.00
Glx	9.00	9.06	Ser	3.00
Gly			Thr	1.00
His	2.00	1.75	Trp	
Ile	3.00	2.46	Tyr	
Leu	7.00	6.98	Val	1.00

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors

Tel: +1 612 379 2956

Product Information

www.tocris.com**Product Name:** CRF (human, rat)**Catalog No.:** 1151**Batch No.:** 35

CAS Number: 86784-80-7

Description:

CRF (human, rat) is a 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 in lyophilized form. It may appear as a solid, gel or film and 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 adenohypophysial hormone secretion. *Annu.Rev.Physiol.* **48** 475. PMID: 2871808.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors

Tel: +1 612 379 2956