

## Certificate of Analysis

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**Product Name:** Urocortin (rat)

**Catalog No.:** 1605

**Batch No.:** 4

CAS Number: 171543-83-2

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>206</sub>H<sub>338</sub>N<sub>62</sub>O<sub>64</sub>  
**Batch Molecular Weight:** 4707.31  
**Physical Appearance:** White lyophilised solid  
**Net Peptide Content:** 84%  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in 1% acetic acid  
**Storage:** Desiccate at -20°C  
**Peptide Sequence:** Asp-Asp-Pro-Pro-Leu-Ser-Ile-Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Thr-Leu-Leu-Glu-Leu-Ala-Arg-Thr-Gln-Ser-Gln-Arg-Glu-Arg-Ala-Glu-Gln-Asn-Arg-Ile-Ile-Phe-Asp-Ser-Val-NH<sub>2</sub>

### 2. ANALYTICAL DATA

**HPLC:** Shows 97.8% purity  
**Mass Spectrum:** Consistent with structure

### 3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	2.00	1.92	Lys		
Arg	5.00	4.91	Met		
Asx	5.00	5.03	Phe	2.00	1.99
Cys			Pro	2.00	1.99
Glx	6.00	5.94	Ser	3.00	2.23
Gly			Thr	3.00	2.64
His	1.00	1.03	Trp		
Ile	3.00	2.54	Tyr		
Leu	7.00	7.15	Val	1.00	1.04

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

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**Description:**

Endogenous CRF agonist.  $K_i$  values are 13, 1.5 and 0.97 nM for hCRF<sub>1</sub>, rCRF<sub>2α</sub> and mCRF<sub>2β</sub> respectively.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>206</sub>H<sub>338</sub>N<sub>62</sub>O<sub>64</sub>

Batch Molecular Weight: 4707.31

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Asp-Asp-Pro-Pro-Leu-Ser-Ile-Asp-Leu-Thr-  
Phe-His-Leu-Leu-Arg-Thr-Leu-Leu-Glu-Leu-  
Ala-Arg-Thr-Gln-Ser-Gln-Arg-Glu-Arg-Ala-  
Glu-Gln-Asn-Arg-Ile-Ile-Phe-Asp-Ser-Val-NH<sub>2</sub>

**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

Soluble to 1 mg/ml in 1% acetic acid

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:** 84% (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 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:**

**Reul and Holsboer** (2002) Corticotropin-releasing factor receptors 1 and 2 in anxiety and depression. *Curr.Opin.Pharmacol.* **2** 23. PMID: 11786305.

**Skelton et al** (2000) The neurobiology of urocortin. *Regul.Pept.* **93** 85. PMID: 11033056.

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

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