

Product Name: Urocortin (human)

Catalog No.: 1604

Batch No.: 7

CAS Number: 176591-49-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀₄H₃₃₇N₆₃O₆₄
Batch Molecular Weight: 4696.29
Physical Appearance: White lyophilised solid
Net Peptide Content: 80%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Asp-Asn-Pro-Ser-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-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala	2.00	1.98	Lys				
Arg	5.00	5.03	Met				
Asx	5.00	5.04	Phe	2.00	2.11		
Cys			Pro	1.00	1.06		
Glx	6.00	5.90	Ser	4.00	3.96		
Gly			Thr	3.00	3.05		
His	1.00	0.96	Trp				
Ile	3.00	2.51	Tyr				
Leu	7.00	7.02	Val	1.00	1.10		

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 0.4, 0.3 and 0.5 nM for hCRF₁, rCRF_{2α} and mCRF_{2β} respectively.

Physical and Chemical Properties:

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Batch Molecular Weight: 4696.29

Physical Appearance: White lyophilised solid

Peptide Sequence:

Asp-Asn-Pro-Ser-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-NH₂

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 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: 80% (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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