Certificate of Analysis

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Product Name: **CRF (6-33)** **Catalog No.: 1607** **Batch No.: 3**

CAS Number: 120066-38-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{141}H_{231}N_{41}O_{43}S$
Batch Molecular Weight:	3220.68
Physical Appearance:	White lyophilised solid
Net Peptide Content:	80%
Counter Ion:	Trifluoroacetate
Solubility:	Soluble to 1 mg/ml in water
Storage:	Desiccate at -20°C
Peptide Sequence:	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

2. ANALYTICAL DATA

HPLC:	Shows >95% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	4.00	4.11	Lys		
Arg	2.00	1.98	Met	1.00	1.02
Asx	1.00	1.01	Phe	1.00	0.97
Cys			Pro		
Glx	6.00	6.05	Ser	2.00	1.96
Gly			Thr	1.00	1.11
His	2.00	2.10	Trp		
Ile	1.00	0.97	Tyr		
Leu	6.00	5.86	Val	1.00	0.87

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Product Information

Product Name: **CRF (6-33)** **Catalog No.: 1607** **Batch No.: 3**

CAS Number: 120066-38-8

Description:

Corticotropin-releasing factor binding protein (CRFBP) inhibitor peptide; displaces CRF from CRFBP. Suppresses body weight gain and increases motor activity in obese rats in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{141}H_{231}N_{41}O_{43}S$

Batch Molecular Weight: 3220.68

Physical Appearance: White lyophilised solid

Peptide Sequence:

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

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: Trifluoroacetate

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 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:

Jahn *et al* (2002) The binding protein of corticotropin-releasing factor: ligand-binding site and subunit structure. Proc.Natl.Acad.Sci.U.S.A. ***99*** 12055. PMID: 12215497.

Heinrichs *et al* (2001) Dissociation of arousal-like from anxiogenic-like actions of brain corticotropin-releasing factor receptor ligands in rats. Behav.Brain Res. ***122*** 43. PMID: 11287075.

Heinrichs *et al* (2001) Selective stimulatory actions of corticotropin-releasing factor ligands on correlates of energy balance. Physiol.Behav. ***74*** 5. PMID: 11564446.

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