

Print Date: Jul 23rd 2021

Certificate of Analysis

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Product Name:	Neuropeptide	FF

CAS Number: 99566-27-5

Catalog No.: 3137 Ba

Batch No.: 6

1. PHYSICAL AND CHEMICAL PROPERTIES

	Batch Molecular Formula:	$C_{54}H_{76}N_{14}O_{10}$		
	Batch Molecular Weight:	1081.28		
	Physical Appearance:	White lyophilised solid		
	Net Peptide Content:	75%		
	Counter Ion:	TFA		
	Solubility:	Soluble to 0.50 mg/ml in water		
	Storage:	Store at -20°C		
	Peptide Sequence:	Phe-Leu-Phe-Gin-Pro-Gin-Arg-Phe-NH ₂		
2.	ANALYTICAL DATA			
	HPLC:	Shows 98.8% purity		
	Mass Spectrum:	Consistent with structure		

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid Theoretical Actual

Ala			Lys		
Arg	1.00	1.04	Met		
Asx			Phe	3.00	2.71
Cys			Pro	1.00	1.04
Glx	2.00	1.95	Ser		
Gly			Thr		
His			Trp		
lle			Tyr		
Leu	1.00	0.98	Val		

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i.c.v. administration. Also MRGPRA agonist.

Physical Appearance: White lyophilised solid

Phe-Leu-Phe-Gin-Pro-Gin-Arg-Phe-NH₂

Physical and Chemical Properties:

Batch Molecular Formula: $C_{54}H_{76}N_{14}O_{10}$ Batch Molecular Weight: 1081.28

Neuropeptide FF is an endogenous antiopioid peptide and

agonist at NPFF1 and NPFF2 receptors (Ki values are 2.82 and

0.21 nM respectively). Exhibits anorexigenic effects following

CAS Number: 99566-27-5

Description:

Peptide Sequence:

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.50 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.

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Net Peptide Content: 75% (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 $45-60^{\circ}C$ 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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Solinski et al (2014) Pharmacology and signaling of MAS-related G protein-coupled receptors. Pharmacol.Rev. 66 570. PMID: 24867890.

Cline *et al* (2007) Central neuropeptide FF reduces feed consumption and affects hypothalamic chemistry in chicks. Neuropeptides **41** 433. PMID: 17936900.

Gouarderes *et al* (2007) Functional differences between NPFF₁ and NPFF₂ receptor coupling: high intrinsic activities of RFamiderelated peptides on stimulation of[³⁵S]GTP_YS binding. Neuropharmacology **52** 376. PMID: 17011599.

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