Print Date: Jan 4th 2024

Batch No.: 17

Certificate of Analysis

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Catalog No.: 1176

Product Name:[Leu³¹,Pro³⁴]-Neuropeptide Y (human, rat)CAS Number:132699-73-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{189}H_{284}N_{54}O_{56}S$		
Batch Molecular Weight:	4241		
Physical Appearance:	White lyophilised solid		
Counter Ion:	TFA		
Solubility:	Soluble to 1 mg/ml in water		
Storage:	Store at -20°C		
Peptide Sequence:	Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu- Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr- Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu- Leu-Thr-Arg-Pro-Arg-Tyr-NH ₂		

2. ANALYTICAL DATA

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HPLC:	Shows 99.2 % purity		
Mass Spectrum:	Consistent with structure		

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretica	Actual
Ala	4.00	3.86	Lys	1.00	1.00
Arg	4.00	3.72	Met	1.00	0.99
Asx	5.00	4.92	Phe		
Cys			Pro	5.00	4.93
Glx	2.00	1.97	Ser	2.00	2.00
Gly	1.00	1.00	Thr	1.00	1.04
His	1.00	1.03	Trp		
lle	1.00	1.02	Tyr	5.00	4.98
Leu	3.00	3.12	Val		

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

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Product Information

Product Name: [Leu³¹,Pro³⁴]-Neuropeptide Y (human, rat)

CAS Number: 132699-73-1

Description:

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[Leu³¹,Pro³⁴]-Neuropeptide Y (human, rat) is a high affinity neuropeptide Y Y_1 receptor agonist (K_i = 0.39 nM). Also shows affinity for Y_4 and Y_5 receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C189H284N54O56S Batch Molecular Weight: 4241 Physical Appearance: White lyophilised solid

Peptide Sequence:

Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Leu-Thr-Arg-Pro-Arg-Tyr-NH₂

Storage: Store 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.

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 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 aliguots and storing the aliguots 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.

References:

Kask et al (1998) Evidence for involvement of neuropeptide Y receptors in the regulation of food intake: studies with Y1-selective antagonist BIBP3226. Br.J.Pharmacol. 124 1507. PMID: 9723965.

Michel et al (1998) XVI. International Union of Pharmacology recommendations for the nomenclature of neuropeptide Y, peptide YY, and pancreatic polypeptide receptors. Pharmacol.Rev. 50 143. PMID: 9549761.

Bard et al (1995) Cloning and functional expression of a human Y₄ subtype receptor for pancreatic polypeptide, neuropeptide Y, and peptide YY. J.Biol.Chem. 270 26762. PMID: 7592911.

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