



Certificate of Analysis

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Product Name: Peptide YY (3-36) (porcine) Catalog No.: 1618 Batch No.: 10

CAS Number: 126339-09-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇₆H₂₇₂N₅₂O₅₄

Batch Molecular Weight: 3980.4

Physical Appearance: White lyophilised solid

Counter Ion: TFA

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Ala-Lys-Pro-Glu-Ala-Pro-Gly-Glu-Asp-Ala-

Ser-Pro-Glu-Glu-Leu-Ser-Arg-Tyr-Tyr-Ala-Ser-Leu-Arg-His-Tyr-Leu-Asn-Leu-Val-Thr-

Arg-Gln-Arg-Tyr-NH₂

2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	l Theoretical	Actual	Amino Acid	Theoretical	Actua
Ala	4.00	3.85	Lys	1.00	1.00
Arg	4.00	3.75	Met		
Asx	2.00	2.01	Phe		
Cys			Pro	3.00	3.01
Glx	5.00	4.96	Ser	3.00	2.97
Gly	1.00	1.02	Thr	1.00	0.93
His	1.00	0.97	Trp		
lle			Tyr	4.00	4.09
Leu	4.00	4.03	Val	1.00	1.01

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



Product Information

Print Date: Aug 27th 2025

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Product Name: Peptide YY (3-36) (porcine) Catalog No.: 1618 Batch No.: 10

CAS Number: 126339-09-1

Description:

Peptide YY (3-36) (porcine) is a Y_2 selective agonist. IC₅₀ values are 0.11 and 1050 nM for inhibition of ¹²⁵I-PYY binding to Y_2 and Y_1 receptors respectively. Inhibits food intake and reduces weight gain in vivo. Brain penetrant.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{176}H_{272}N_{52}O_{54}$

Batch Molecular Weight: 3980.4

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ala-Lys-Pro-Glu-Ala-Pro-Gly-Glu-Asp-Ala-Ser-Pro-Glu-Glu-Leu-Ser-Arg-Tyr-Tyr-Ala-Ser-Leu-Arg-His-Tyr-Leu-Asn-Leu-Val-Thr-Arg-Gln-Arg-Tyr-NH₂ Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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 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:

Nonaka *et al* (2003) Characterization of blood-brain barrier permeability to PYY₃₋₃₆ in the mouse. J.Pharmacol.Exp.Ther. *306* 948. PMID: 12750431.

Batterham et al (2002) Gut hormone PYY₃₋₃₆ physiologically inhibits food intake. Nature 418 650. PMID: 12167864.

Keire *et al* (2000) Primary structures of PYY, [Pro³⁴]PYY and PYY-(3-36) confer different conformations and receptor selectivity. Am.J.Physiol.Gastrointest.Liver Physiol. **279** G126. PMID: 10898754.

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