

Certificate of Analysis

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Product Name: BWX 46
CAS Number: 172997-92-1

Catalog No.: 2035 **Batch No.:** 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁₆H₁₈₆N₃₆O₂₈S₂
Batch Molecular Weight: 2597.09
Physical Appearance: White lyophilised solid
Net Peptide Content: 72%
Counter Ion: TFA
Solubility: Soluble to 10 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Tyr-Ile-Asp-Leu-Cys-Thr-Arg-Nva-Arg-Tyr-NH₂
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Tyr-Ile-Asp-Leu-Cys-Thr-Arg-Nva-Arg-Tyr-NH₂

2. ANALYTICAL DATA

HPLC: Shows 97% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg	4.00	4.04	Met		
Asx	2.00	2.05	Phe		
Cys			Pro		
Glx			Ser		
Gly			Thr	2.00	2.04
His			Trp		
Ile	2.00	1.82	Tyr	4.00	3.86
Leu	2.00	2.05	Val		

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

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Description:

Potent and highly selective NPY Y₅ receptor agonist (K_i values are 0.85, 42, 3015 and 245 nM at Y₅, Y₁, Y₂ and Y₄ receptors respectively). Stimulates food intake gradually following intrahypothalamic administration in rats.

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Tyr-Ile-Asp-Leu-Cys-Thr-Arg-Nva-Arg-Tyr-NH₂

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 10 mg/ml in water

Net Peptide Content: 72% (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.

References:

Balasubramaniam et al (2002) Bis(31/31'){Cys³¹, Nva³⁴]NPY(27-36)-NH₂: a neuropeptide Y (NPY) Y₅ receptor selective agonist with a latent stimulatory effect on food intake in rats. Peptides **23** 1485. PMID: 12182951.

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