

Certificate of Analysis

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Product Name: [D-Lys³]-GHRP-6

Catalog No.: 1922

Batch No.: 14

CAS Number: 136054-22-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₉H₆₃N₁₃O₆
Batch Molecular Weight: 930.12
Physical Appearance: White lyophilised solid
Counter Ion: Acetate
Solubility: Soluble to 0.50 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: His-D-Trp-D-Lys-Trp-D-Phe-Lys-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		Amino Acid Theoretical			Actual	
Ala					Lys	2.00		2.02	
Arg					Met				
Asx					Phe	1.00		0.98	
Cys					Pro				
Glx					Ser				
Gly					Thr				
His	1.00	0.94			Trp	2.00		Not Detected	
Ile					Tyr				
Leu					Val				

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

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Description:

[D-Lys³]-GHRP-6 is an antagonist at the ghrelin receptor (GHS-R1a) (IC₅₀ = 0.9 μM). Also weakly binds to melanocortin receptors (K_i = 26-120 μM). Centrally active in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₉H₆₃N₁₃O₆

Batch Molecular Weight: 930.12

Physical Appearance: White lyophilised solid

Peptide Sequence:

His-D-Trp-D-Lys-Trp-D-Phe-Lys-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.50 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: Acetate

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:

Pinilla *et al* (2003) Role of ghrelin in the control of GH secretion in prepubertal rats: interactions with excitatory amino acids. *Neuroendocrinology* **77** 83. PMID: 12624529.

Traebert *et al* (2002) Ghrelin acts on leptin-responsive neurones in the rat arcuate nucleus. *J. Neuroendocrinol.* **14** 580. PMID: 12121496.

Schioth *et al* (1997) Characterization of the binding of MSH-B, HP-228, GHRP-6 and 153N-6 to the human melanocortin receptor subtypes. *Neuropeptides* **31** 565. PMID: 9574823.

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