

# Certificate of Analysis

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**Product Name:** [D-Lys<sup>3</sup>]-GHRP-6

**Catalog No.:** 1922

**Batch No.:** 12

CAS Number: 136054-22-3

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>49</sub> H <sub>63</sub> N <sub>13</sub> O <sub>6</sub>
<b>Batch Molecular Weight:</b>	930.12
<b>Physical Appearance:</b>	White lyophilised solid
<b>Counter Ion:</b>	Acetate
<b>Solubility:</b>	Soluble to 0.50 mg/ml in water
<b>Storage:</b>	Store at -20°C
<b>Peptide Sequence:</b>	His-D-Trp-D-Lys-Trp-D-Phe-Lys-NH <sub>2</sub>

## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.4 % purity
<b>Mass Spectrum:</b>	Consistent with structure

## 3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala		Lys	2.00	2.00			
Arg		Met					
Asx		Phe	1.00	1.00			
Cys		Pro					
Glx		Ser					
Gly		Thr					
His	1.00	Trp	2.00	2.00	Detected		
Ile		Tyr					
Leu		Val					

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

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CAS Number: 136054-22-3

**Description:**

[D-Lys<sup>3</sup>]-GHRP-6 is an antagonist at the ghrelin receptor (GHS-R1a) (IC<sub>50</sub> = 0.9 μM). Also weakly binds to melanocortin receptors (K<sub>i</sub> = 26-120 μM). Centrally active in vivo.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>49</sub>H<sub>63</sub>N<sub>13</sub>O<sub>6</sub>

Batch Molecular Weight: 930.12

Physical Appearance: White lyophilised solid

**Peptide Sequence:**His-D-Trp-D-Lys-Trp-D-Phe-Lys-NH<sub>2</sub>**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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