

# Certificate of Analysis

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**Product Name:** Kisspeptin 234

**Catalog No.:** 3881

**Batch No.:** 9

CAS Number: 1145998-81-7

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>63</sub>H<sub>78</sub>N<sub>18</sub>O<sub>13</sub>  
**Batch Molecular Weight:** 1295.42  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Store at -20°C  
**Peptide Sequence:** Ac-D-Ala-Asn-Trp-Asn-Gly-Phe-Gly-D-Trp-Arg-Phe-NH<sub>2</sub>

## 2. ANALYTICAL DATA

**HPLC:** Shows 99% purity  
**Mass Spectrum:** Consistent with structure

## 3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala	1.00	1.00	Lys				
Arg	1.00	1.01	Met				
Asx	2.00	1.60	Phe	2.00	2.00		
Cys			Pro				
Glx			Ser				
Gly	2.00	1.99	Thr				
His			Trp	2.00	Detected		
Ile			Tyr				
Leu			Val				

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

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**Catalog No.:** 3881

**Batch No.:** 9

CAS Number: 1145998-81-7

**Description:**

Kisspeptin 234 is a kisspeptin receptor (KISS1, GPR54) antagonist; kisspeptin-10 (Cat. No. 2570) analog. Inhibits kisspeptin-10 stimulation of inositol phosphate (IP) ( $IC_{50} = 7$  nM) and release of gonadotrophin-releasing hormone (GnRH).

**Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{63}H_{78}N_{18}O_{13}$

Batch Molecular Weight: 1295.42

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Ac-D-Ala-Asn-Trp-Asn-Gly-Phe-Gly-D-Trp-Arg-Phe-NH<sub>2</sub>

**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 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.

**Licensing Information:**

Sold under license

**References:**

Roseweir *et al* (2009) Discovery of potent kisspeptin antagonists delineate physiological mechanisms of gonadotrophin regulation. *J.Neurosci.* **29** 3920. PMID: 19321788.

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