

Certificate of Analysis

Product Name: Kisspeptin 234

Catalog No.: 3881

Batch No.: 11

CAS Number: 1145998-81-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₃H₇₈N₁₈O₁₃
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-NH₂

2. ANALYTICAL DATA

HPLC: Shows 96.7% 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	Not Detected		
Ile			Tyr				
Leu			Val				

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

Product Name: Kisspeptin 234**Catalog No.:** 3881**11**

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-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 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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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956