bio-techne
TOCRIS

Print Date: Mar 19th 2025

Certificate of Analysis

www.tocris.com

Product Name: **Kisspeptin 10 (rat)** **Catalog No.: 4243** **Batch No.: 9**

CAS Number: 478507-53-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{63}H_{83}N_{17}O_{15}$
Batch Molecular Weight:	1318.45
Physical Appearance:	White lyophilised solid
Counter Ion:	TFA
Solubility:	Soluble to 2 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Tyr-Asn-Trp-Asn-Ser-Phe-Gly-Leu-Arg-Tyr-NH_2

2. ANALYTICAL DATA

HPLC:	Shows 98.4% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg	1.00	0.99	Met		
Asx	2.00	1.40	Phe	1.00	1.00
Cys			Pro		
Glx			Ser	1.00	0.95
Gly	1.00	1.01	Thr		
His			Trp	1.00	Not Detected
Ile			Tyr	2.00	2.01
Leu	1.00	1.04	Val		

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

Product Name: **Kisspeptin 10 (rat)** **Catalog No.: 4243** **Batch No.: 9**

CAS Number: 478507-53-8

Description:

Kisspeptin 10 (rat) is an endogenous ligand for the rodent kisspeptin receptor (KISS1, GPR54). Human Analog also available.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{63}H_{83}N_{17}O_{15}$

Batch Molecular Weight: 1318.45

Physical Appearance: White lyophilised solid

Peptide Sequence:

Tyr-Asn-Trp-Asn-Ser-Phe-Gly-Leu-Arg-Tyr-NH_2

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 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 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:

Navarro *et al* (2004) Developmental and hormonally regulated messenger ribonucleic acid expression of KiSS-1 and its putative receptor, GPR54, in rat hypothalamus and potent luteinizing hormone-releasing activity of KiSS-1 peptide. Endocrinology ***145*** 4565. PMID: 15242985.

Stafford *et al* (2002) Identification and characterization of mouse metastasis-suppressor KiSS1 and its G-protein-coupled receptor. Cancer Res. ***62*** 5399. PMID: 12359743.