TOCRIS
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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: Kisspeptin 10 (dog) **Catalog No.: 5347** **Batch No.: 1**

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{65}H_{87}N_{17}O_{14}$
Batch Molecular Weight:	1330.51
Physical Appearance:	White lyophilised solid
Net Peptide Content:	82%
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in 20% ethanol / water
Storage:	Store at -20°C
Peptide Sequence:	Tyr-Asn-Trp-Asn-Val-Phe-Gly-Leu-Arg-Tyr-NH_2

2. ANALYTICAL DATA

HPLC:	Shows 95% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg	1.00	1.06	Met		
Asx	2.00	1.44	Phe	1.00	0.99
Cys			Pro		
Glx			Ser		
Gly	1.00	0.97	Thr		
His			Trp		
Ile			Tyr	2.00	1.97
Leu	1.00	0.96	Val	1.00	1.05

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 (dog) **Catalog No.: 5347** **Batch No.: 1**

Description:

Endogenous ligand for the canine KISS1 receptor (Kisspeptin receptor or GPR54). Stimulates section of luteinizing hormone, follicle stimulating hormone and estradiol in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{65}H_{87}N_{17}O_{14}$

Batch Molecular Weight: 1330.51

Physical Appearance: White lyophilised solid

Peptide Sequence:

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

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 20% ethanol / 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.

Net Peptide Content: 82% (Remaining weight made up of counterions and residual water).

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:

Albers-Wolthers *et al* (2014) Identification of a novel kisspeptin with high gonadotrophin stimulatory activity in the dog. Neuroendocrinology ***99*** 178. PMID: 24902774.