## Print Date: Jul 26th 2024

# **Certificate of Analysis**

## www.tocris.com

Product Name: Exendin-3 (9-39) amide CAS Number: 133514-43-9

**biotechne**<sup>®</sup>

TOCRIS

#### Catalog No.: 2081 Batch No.: 11

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C <sub>149</sub> H <sub>234</sub> N <sub>40</sub> O <sub>47</sub> S			
Batch Molecular Weight:	3369.79			
Physical Appearance:	White lyophilised solid			
Counter Ion:	Trifluoroacetate			
Solubility:	Soluble to 1 mg/ml in water			
Storage:	Store at -20°C			
Peptide Sequence:	Asp-Leu-Ser-Lys-Gln-Met-Glu-Glu-Glu- Ala-Val-Arg-Leu-Phe-Ile-Glu-Trp-Leu- Lys-Asn-Gly-Gly-Pro-Ser-Ser-Gly-Ala- Pro-Pro-Pro-Ser-NH <sub>2</sub>			
2. ANALYTICAL DATA				
HPLC:	Shows 96.5% purity			

Consistent with structure

## 2.

## HPLC:

Mass Spectrum:

## 3. AMINO ACID ANALYSIS DATA

Amino Ac	id Theoretic	al Actual	Amino Aci	d Theoretica	al Actual
Ala	2.00	1.96	Lys	2.00	2.00
Arg	1.00	1.00	Met	1.00	1.00
Asx	2.00	2.04	Phe	1.00	1.01
Cys			Pro	4.00	4.12
Glx	5.00	4.94	Ser	4.00	2.84
Gly	3.00	3.02	Thr		
His			Trp	1.00	0.16
lle	1.00	1.00	Tyr		
Leu	3.00	2.96	Val	1.00	0.96

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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## **Product Information**

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## Product Name: Exendin-3 (9-39) amide

CAS Number: 133514-43-9

## Description:

Exendin-3 (9-39) amide is a potent and selective GLP-1 receptor antagonist ( $K_d = 1.7$  nM at cloned human GLP-1 receptors). Inhibits cAMP production and insulin release induced by GLP-1 (7-36), exendin-3 (IC<sub>50</sub> = 20 nM) and exendin-4. Blocks the inhibitory effect of GLP-1 on food intake in rats.

## **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>149</sub>H<sub>234</sub>N<sub>40</sub>O<sub>47</sub>S Batch Molecular Weight: 3369.79 Physical Appearance: White Iyophilised solid

#### **Peptide Sequence:**

Asp-Leu-Ser-Lys-Gin-Met-Glu-Glu-Glu-Ala-Val-Arg-Leu-Phe-IIe-Glu-Trp-Leu-Lys-Asn-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH<sub>2</sub>

### 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: Trifluoroacetate

#### 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  $\mu$ m filter to remove potential bacterial contamination whenever possible.

## **References:**

Turton et al (1996) A role for glucagon-like peptide-1 in the central regulation of feeding. Nature 379 69. PMID: 8538742.

**Goke** *et al* (1993) Exendin-4 is a high potency agonist and truncated exendin-(9-39)-amide an antagonist at the glucagon-like peptide 1-(7-36)-amide receptor of Ins-Secr.g  $\beta$ -cells. J.Biol.Chem. **268** 19650. PMID: 8396143.

**Thorens** *et al* (1993) Cloning and functional expression of the human islet GLP-1 receptor. Demonstration that exendin-4 is an agonist and exendin-(9-39) an antagonist of the receptor. Diabetes **42** 1678. PMID: 8405712.

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bio-techne.comNorth AmericaChinaEurope Middle East AfricaRest of Worldinfo@bio-techne.comTel: (800) 343 7475info.cn@bio-techne.comTel: +44 (0)1235 529449www.tocris.com/distributorstechsupport@bio-techne.comTel: +86 (21) 52380373Tel: +44 (0)1235 529449tel: +1612 379 2956



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