

Certificate of Analysis

www.tocris.com

Product Name: GLP-1 (9-36) amide

Catalog No.: 3266

Batch No.: 13

CAS Number: 161748-29-4

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------|---|
| Batch Molecular Formula: | C ₁₄₀ H ₂₁₄ N ₃₆ O ₄₃ |
| Batch Molecular Weight: | 3089.44 |
| Physical Appearance: | White lyophilised solid |
| Counter Ion: | TFA |
| Solubility: | Soluble to 2 mg/ml in 0.025% acetic acid |
| Storage: | Store at -20°C |
| Peptide Sequence: | Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-NH ₂ |

2. ANALYTICAL DATA

| | |
|-----------------------|---------------------------|
| HPLC: | Shows 98.1% purity |
| Mass Spectrum: | Consistent with structure |

3. AMINO ACID ANALYSIS DATA

| Amino Acid Theoretical | | Actual | | Amino Acid Theoretical | | Actual | |
|------------------------|------|--------|-----|------------------------|----------|--------|--|
| Ala | 3.00 | 2.81 | Lys | 2.00 | 1.73 | | |
| Arg | 1.00 | 1.05 | Met | | | | |
| Asx | 1.00 | 1.02 | Phe | 2.00 | 2.00 | | |
| Cys | | | Pro | | | | |
| Glx | 4.00 | 3.99 | Ser | 3.00 | 2.96 | | |
| Gly | 3.00 | 3.02 | Thr | 2.00 | 1.91 | | |
| His | | | Trp | 1.00 | Detected | | |
| Ile | 1.00 | 1.04 | Tyr | 1.00 | 1.04 | | |
| Leu | 2.00 | 2.07 | Val | 2.00 | 2.01 | | |

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

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: GLP-1 (9-36) amide

Catalog No.: 3266

13

CAS Number: 161748-29-4

Description:

GLP-1 (9-36) amide is a N-terminal truncated metabolite of glucagon-like peptide GLP-1-(7-36) (Cat. No. 2082) formed by dipeptidyl peptidase-IV cleavage. Acts as an antagonist at the human GLP-1 receptor. Inhibits hepatic glucose production in vivo and is a weak insulinotropic agent.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₄₀H₂₁₄N₃₆O₄₃

Batch Molecular Weight: 3089.44

Physical Appearance: White lyophilised solid

Peptide Sequence:

Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-
Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-
Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in 0.025% acetic acid

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.

References:

Elahi et al (2008) GLP-1 (9-36) amide, cleavage product of GLP-1 (7-36) amide is a glucoregulatory peptide. *Obesity* **16** 1501. PMID: 18421270.

Knudsen and Pridal (1996) Glucagon-like peptide-1-(9-36) amide is a major metabolite of glucagon-like peptide-1-(7-36) amide after in vivo administration to dogs, and it acts as an antagonist on the pancreatic receptor. *Eur.J.Pharmacol.* **318** 429. PMID: 9016935.

Deacon et al (1995) Degradation of glucagon-like peptide-1 by human plasma *in vitro* yields an N-terminally truncated peptide that is a major endogenous metabolite *in vivo*. *J.Clin.Endocrinol.Met.* **80** 952.

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

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