

# Certificate of Analysis

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**Product Name:** GLP-1 (9-36) amide  
**CAS Number:** 161748-29-4

**Catalog No.:** 3266 **Batch No.:** 16

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>140</sub>H<sub>214</sub>N<sub>36</sub>O<sub>43</sub>  
**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<sub>2</sub>

## 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	2.91	Lys	2.00	1.98		
Arg	1.00	1.02	Met				
Asx	1.00	1.03	Phe	2.00	1.95		
Cys			Pro				
Glx	4.00	4.03	Ser	3.00	3.00		
Gly	3.00	2.99	Thr	2.00	2.02		
His			Trp	1.00	Not Detected		
Ile	1.00	0.97	Tyr	1.00	1.03		
Leu	2.00	2.08	Val	2.00	2.00		

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**Batch No.:** 16

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: C<sub>140</sub>H<sub>214</sub>N<sub>36</sub>O<sub>43</sub>

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-NH<sub>2</sub>

**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 2 mg/ml in 0.025% acetic acid

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.

**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.

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