

# Certificate of Analysis

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**Product Name:** GLP-2 (human)

**Catalog No.:** 2258

**Batch No.:** 8

CAS Number: 223460-79-5

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>165</sub> H <sub>254</sub> N <sub>44</sub> O <sub>55</sub> S
<b>Batch Molecular Weight:</b>	3766.14
<b>Physical Appearance:</b>	White lyophilised solid
<b>Counter Ion:</b>	TFA
<b>Solubility:</b>	Soluble to 1 mg/ml in 5% NH <sub>4</sub> OH / water
<b>Storage:</b>	Store at -20°C
<b>Peptide Sequence:</b>	His-Ala-Asp-Gly-Ser-Phe-Ser-Asp-Glu-Met- Asn-Thr-Ile-Leu-Asp-Asn-Leu-Ala-Ala-Arg- Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr- Lys-Ile-Thr-Asp

## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 95.1% purity
<b>Mass Spectrum:</b>	Consistent with structure

## 3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala	3.00	2.94	Lys	1.00	0.99		
Arg	1.00	1.00	Met	1.00	1.00		
Asx	8.00	8.01	Phe	2.00	2.01		
Cys			Pro				
Glx	2.00	2.13	Ser	2.00	1.52		
Gly	1.00	1.00	Thr	3.00	2.55		
His	1.00	1.02	Trp	1.00	0.05		
Ile	4.00	3.93	Tyr				
Leu	3.00	2.97	Val				

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

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CAS Number: 223460-79-5

**Description:**

GLP-2 (human) is an endogenous peptide identified as an intestinal epithelium-specific growth factor; stimulates cell proliferation and inhibits apoptosis. Diverse effects on gastrointestinal function including regulation of intestinal glucose transport, food intake, and gastric acid secretion. GLP-2 (rat) also available.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>165</sub>H<sub>254</sub>N<sub>44</sub>O<sub>55</sub>S

Batch Molecular Weight: 3766.14

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

His-Ala-Asp-Gly-Ser-Phe-Ser-Asp-Glu-Met-  
Asn-Thr-Ile-Leu-Asp-Asn-Leu-Ala-Ala-Arg-  
Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr-  
Lys-Ile-Thr-Asp

**Storage:** Store at -20°C**Solubility & Usage Info:**Soluble to 1 mg/ml in 5% NH<sub>4</sub>OH / 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.

**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:**

**Brubaker and Drucker** (2004) Glucagon-like peptides regulate cell proliferation and apoptosis in the pancreas, gut, and central nervous system. *Endocrinol.* **145** 2653.

**Bulut et al** (2004) Glucagon-like peptide 2 improves intestinal wound healing through induction of epithelial cell migration in vitro-evidence for a TGF-β-mediated effect. *Reg. Peptides* **121** 137.

**Rocha et al** (2004) Glucagon-like peptide-2: divergent signalling pathways. *J.Surg.Res.* **121** 5. PMID: 15313368.

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**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