

Certificate of Analysis

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Product Name: GLP-2 (rat)

Catalog No.: 2259

Batch No.: 3

CAS Number: 195262-56-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₆₆ H ₂₅₆ N ₄₄ O ₅₆ S
Batch Molecular Weight:	3796.17
Physical Appearance:	White lyophilised solid
Net Peptide Content:	80%
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in water
Storage:	Desiccate at -20°C
Peptide Sequence:	His-Ala-Asp-Gly-Ser-Phe-Ser-Asp-Glu-Met- Asn-Thr-Ile-Leu-Asp-Asn-Leu-Ala-Thr-Arg- Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr- Lys-Ile-Thr-Asp

2. ANALYTICAL DATA

HPLC:	Shows 97.7% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala	2.00	2.02	Lys	1.00	1.03		
Arg	1.00	1.08	Met	1.00	1.11		
Asx	8.00	7.71	Phe	2.00	1.96		
Cys			Pro				
Glx	2.00	2.09	Ser	2.00	2.07		
Gly	1.00	1.12	Thr	4.00	3.73		
His	1.00	0.87	Trp				
Ile	4.00	3.90	Tyr				
Leu	3.00	2.88	Val				

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

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Description:

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 (human) also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆₆H₂₅₆N₄₄O₅₆S

Batch Molecular Weight: 3796.17

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-Thr-Arg-
Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr-
Lys-Ile-Thr-Asp

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 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: 80% (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 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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