1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{140}\text{H}_{214}\text{N}_{36}\text{O}_{43} \)
   Batch Molecular Weight: 3089.44
   Physical Appearance: White lyophilised solid
   Net Peptide Content: 77%
   Counter Ion: TFA
   Solubility: Soluble to 2 mg/ml in 0.025% acetic acid
   Storage: Desiccate 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 96.2% purity
   Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

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<th>Actual</th>
<th>Amino Acid</th>
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**Product Name:** GLP-1 (9-36) amide  
**Catalog No.:** 3266  
**Batch No.:** 10

**Description:**
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:** C140H214N38O43
- **Batch Molecular Weight:** 3089.44
- **Physical Appearance:** White lyophilised solid

**Peptide Sequence:**
Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Ile-Gly-Gly-Gln-Ala-Ala-Ile-Leu-Lys-Gly-Arg-NH$_2$

**Storage:** Desiccate 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.

**Net Peptide Content:** 77% (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, Gin, 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:**