GLP-1/Glucagon-Like Peptide Human

**Product Data Sheet**

**Type:** Synthetic  
**Species:** Human  
**Other names:** GLP-1  
**Cat. No.:** RD172176100 (0.1 mg)

**Description**
Total 37 AA. MW: 4169.5 Da (Mass Spectral Analysis)

**Introduction to the Molecule**
GLP-1 is a peptide hormone from the intestinal mucosa, which is produced from its precursor, proglucagon by post translational processing. GLP-1 may play a role in the physiological control of feeding. GLP-1 amide was supposed to improved glycemic control in patients with type 2 diabetes by increasing insulin secretion, by inhibiting glucagon secretion and by delaying gastric emptying rather than by altering extrapancreatic glucose metabolism. Intravenous GLP-1 and amide could normalize fasting hyperglycaemia in type 2 diabetic patients. Hyperglycaemia during parenteral nutrition could be controlled by exogenous GLP-1, whereas the chronic therapy of type 2 diabetes required GLP-1 derivatives with longer duration of action.

**Research topic**
Diabetology - Other Relevant Products, Energy metabolism and body weight regulation

**Amino Acid Sequence**
His-Asp-Glu-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Thr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Gly

**Purity**
97.8% (RP-HPLC)

**Formulation**
Lyophilized

**Reconstitution**
Add deionized water to prepare a working stock solution of approximately 1.0 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

**Shipping**
At ambient temperature. Upon receipt, store the product at the temperature recommended below.

**Storage, Stability/Shelf Life**
Store lyophilized peptide at -20°C. Lyophilized peptide remains stable until the expiry date when stored at -20°C. Reconstituted peptide can be stored at 4°C for a limited period of time.

**Quality Control Test**
RP-HPLC

**Note**
This product is intended for research use only.

**Physical Appearance**
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