



## 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 posttranslational processing. GLP-1 may play a role in the physiological control of feeding. GLP-1 amide was supposed to improve 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-Phe-Glu-Arg-His-Ala-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-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

White lyophilized powder

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