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 transnational 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-P he-Glu-Arg-Hi s-Ala-Glu-Gly- Thr-Phe-Thr-S er-Asp-Val-Se r-Ser-Tyr-Leu- Glu-Gly-Gln-A la-Ala-Lys-Gl u-Phe-Ile-Ala- Trp-Leu-Val-L ys-Gly-Arg-Gl y

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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