

Glucagon-like peptide 1 (1-37), human

Chemical Properties

CAS No.:	87805-34-3
Formula:	C186H275N51O59
Molecular Weight:	4169.48
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Glucagon-like peptide 1 (1-37), human is a highly potent agonist of the GLP-1 receptor. Pancreatic hormone synthesized by post-translational processing of proglucagon. Unlike truncated forms of GLP-1, it has no effect on food intake in rats and does not enhance pancreatic insulin secretion.
In vitro	Glucagon-like peptide-1 (GLP-1) is produced by the posttranslational processing of proglucagon and acts as a regulator of various homeostatic events. GLP-1(1-37) is more stable than GLP-1(7-37), with 94.7% of the initial amount of peptide left after a 4h exposure to mouse serum. GLP-1(1-37) is confirmed to be a highly potent agonist of the GLP-1 receptor (GLP-1R) by measuring the expression of the luciferase reporter gene expression in transiently transfected human embryonic kidney (HEK293) cells[1].
In vivo	GLP-1(1-37) decreased glycemic excursion in a dose-dependent. The administration of GLP-1(1-37) or GLP-1(7-37) markedly decrease blood glucose levels at 15 min and 30 min compared with the control group[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.24 mL	1.199 mL	2.398 mL
5 mM	0.048 mL	0.24 mL	0.48 mL
10 mM	0.024 mL	0.12 mL	0.24 mL
50 mM	0.005 mL	0.024 mL	0.048 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Zhao L, et al. Glucagon-like peptide-1(1-37) can enhance blood glucose homeostasis in mice. Regul Pept. 2012 Oct 10;178(1-3):1-5.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481