

GLP-1(7-37)

Chemical Properties

CAS No.:	106612-94-6
Formula:	C151H228N40O47
Molecular Weight:	3355.67
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	GLP-1 (7-37) is a truncated, bioactive form of GLP-1 that is the product of proglucagon processing in intestinal endocrine L cells.
In vivo	GLP-1(7-37) (0.5, 5 or 50 pmol/min/kg) infused during the second hour of a 2-hour 11-mM hyperglycemic clamp produces a dose-related enhancement of the glucose-stimulated increase in plasma insulin concentration and an increased rate of glucose infusion in rats[2]. Infusion of GLP-1(7-37) (5 pmol/min/kg) from 1 hour through 7 hours produces a sustained increase in plasma insulin concentration relative to levels in rats infused with vehicle in rats with maintained glucose concentration at 11 mM[2].

Solubility Information

Solubility	H2O: 30 mg/mL (8.94 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.298 mL	1.49 mL	2.98 mL
5 mM	0.06 mL	0.298 mL	0.596 mL
10 mM	0.03 mL	0.149 mL	0.298 mL
50 mM	0.006 mL	0.03 mL	0.06 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. Sarrauste de Menthieri, C. et al. Structural requirements of the N-terminal region of GLP-1-[7-37]-NH₂ for receptor interaction and cAMP production. European journal of medicinal chemistry 39, 473-480, doi:10.1016/j.ejmech.2004.02.002 (2004).

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