

Data Sheet

Product Name:	GLP-1(7-37)	
Cat. No.:	CS-5975	
CAS No.:	106612-94-6	
Molecular Formula:	C151H228N40O47	
Molecular Weight:	3355.67	HAEGTFTSDVSSYLEGQAAKEFIAWLVKGRG
Target:	Glucagon Receptor	
Pathway:	GPCR/G Protein	
Solubility:	H2O : 30 mg/mL (8.94 mM; Need ultrasonic and warming)	

BIOLOGICAL ACTIVITY:

GLP-1(7-37) is an intestinal insulinotropic hormone that augments glucose induced insulin secretion. **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].

PROTOCOL (Extracted from published papers and Only for reference)

Animal Administration: ^[2]Rats^[2]

All experiments are conducted in conscious, catheterized, male Sprague-Dawley rats weighing 300 to 350 g or control rats (body weights, 280 to 320 and 220 to 260 g, respectively). **GLP-1(7-37)** is infused at **0.5, 5, or 50 pmol/min/kg** IV during the second hour of a 2-hour 11-mM hyperglycemic clamp. Glucose (50% solution) is infused at a variable rate to maintain plasma glucose concentration at 11 mM. **GLP-1(7-37) (5 pmol/rnin/kg)** or vehicle (2% heat-inactivated serum plus 1% sodium acetate in normal saline) is infused via the jugular catheter for 60 minutes^[2].

References:

- [1]. Sarrauste de Menthier, 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).
- [2]. Hargrove DM, et al. Glucose-dependent action of glucagon-like peptide-1 (7-37) in vivo during short- or long-term administration. Metabolism. 1995 Sep;44(9):1231-7.

CAIndexNames:

7-37-Glucagon-like peptide I (human)

SMILES:

[HAEGTFTSDVSSYLEGQAAKEFIAWLVKGRG]

Caution: Product has not been fully validated for medical applications. For research use only.

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