



LKT Laboratories, Inc.

Glucagon-like Peptide I Amide (7-36), human

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## Product Information

Product ID G4481

CAS No. 107444-51-9

### Chemical Name

Synonym GLP-1

Formula  $C_{149}H_{229}N_{40}O_{45}$

Formula Wt. 3297.7

### Melting Point

Purity  $\geq 95\%$

Solubility Soluble in water (1 mg/mL).

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

### Description

Glucagon-like peptide 1 (GLP-1) is an endogenous peptide hormone that binds GLP-1 receptors, increasing cAMP and insulin secretion. GLP-1 primarily exhibits anorexigenic, anti-diabetic, and gastrointestinal modulatory activities. GLP-1 decreases food intake and glucagon levels in animal models and also slows gastric emptying. In subjects with type 2 diabetes, the response of GLP-1 to glucose is impaired and subjects show abnormally low levels of GLPs.

H-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-NH<sub>2</sub>

### Bulk quantities available upon request

Product ID	Size
G4481	0.5 mg
G4481	1 mg
G4481	2.5 mg

### References

Kim S, Wan Kim S, Bae YH. Synthesis, bioactivity and specificity of glucagon-like peptide-1 (7-37)/polymer conjugate to isolated rat islets. *Biomaterials*. 2005 Jun;26(17):3597-606. PMID: 15621250.

Vahl TP, Paty BW, Fuller BD, et al. Effects of GLP-1-(7-36)NH<sub>2</sub>, GLP-1-(7-37), and GLP-1-(9-36)NH<sub>2</sub> on intravenous glucose tolerance and glucose-induced insulin secretion in healthy humans. *J Clin Endocrinol Metab*. 2003 Apr;88(4):1772-9. PMID: 12679472.

Mannucci E, Ognibene A, Cremasco F, et al. Glucagon-like peptide (GLP)-1 and leptin concentrations in obese patients with Type 2 diabetes mellitus. *Diabet Med*. 2000 Oct;17(10):713-9. PMID: 11110504.

Nauck MA. Glucagon-like peptide 1 (GLP-1): a potent gut hormone with a possible therapeutic perspective. *Acta Diabetol*. 1998 Oct;35(3):117-29. PMID: 9840447.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.