



LKT Laboratories, Inc.

Glucagon-like Peptide II, rat

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Product Information

Product ID G4484
CAS No. 195262-56-7
Chemical Name

Synonym GLP-2

Formula $C_{166}H_{256}N_{44}O_{56}S$
Formula Wt. 3796.22

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (1 mg/mL).

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

Ship Temp Ambient

Description Glucagon-like peptide 2 (GLP-2) is an endogenous peptide hormone primarily synthesized in the intestine and pancreas. GLP-2 binds and activates the GLP-2 receptor, exhibiting vasodilatory, antihypertensive, antidepressant, and gastrointestinal motility modulating activities. In animal models, GLP-2 increases intestinal blood flow and decreases mean arterial blood pressure. GLP-2 potentiates L-type voltage-gated Ca^{2+} channels through a mechanism that involves activation of PKA. Additionally, GLP-2 decreases immobility time in animals undergoing the forced swim test. This peptide stimulates cell proliferation, inhibiting chemotherapy-induced mucosal atrophy in the intestines. GLP-2 also decreases gastric emptying and gastrointestinal motility.

H-His-Ala-Asp-Gly-Ser-Phe-Ser-Asp-Glu-Met-Asn-Thr-Ile-Leu-Asp-Asn-Leu-Ala-Thr-Arg-Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr-Lys-Ile-Thr-Asp-OH

Bulk quantities available upon request

Product ID	Size
G4484	0.5 mg
G4484	1 mg
G4484	2.5 mg

References Sasaki-Hamada S, Ito K, Oka JI. Neuronal Fos-like immunoreactivity associated with dexamethasone-induced hypertension in rats and effects of glucagon-like peptide-2. *Life Sci.* 2013 Oct 24. pii: S0024-3205(13)00618-8. [Epub ahead of print]. PMID: 24513200.

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Iwai T, Hayashi Y, Narita S, et al. Antidepressant-like effects of glucagon-like peptide-2 in mice occur via monoamine pathways. *Behav Brain Res.* 2009 Dec 1;204(1):235-40. PMID: 19539656.

Mojsov S, Kopczynski MG, Habener JF. Both amidated and nonamidated forms of glucagon-like peptide I are synthesized in the rat intestine and the pancreas. *J Biol Chem.* 1990 May 15;265(14):8001-8. PMID: 1692320.

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