



# LKT Laboratories, Inc.

## Glucagon-like Peptide II, human

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

Product ID G4483

CAS No. 99120-49-7

#### Chemical Name

Synonym GLP-2 (1-34), Preproglucagon 126-159

Formula  $C_{171}H_{266}N_{48}O_{56}S$

Formula Wt. 3922.38

Melting Point

Purity  $\geq 95\%$

Solubility

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-Ala-Arg-Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr-Lys-Ile-Thr-Asp-Arg-OH

**Bulk quantities available upon request**

Product ID	Size
G4483	0.5 mg
G4483	1 mg
G4483	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.

Hansen LB. GLP-2 and mesenteric blood flow. *Dan Med J.* 2013 May;60(5):B4634. PMID: 23673268.

Rasmussen AR, Viby NE, Hare KJ, et al. The intestinotrophic peptide, GLP-2, counteracts the gastrointestinal atrophy in mice induced by the epidermal growth factor receptor inhibitor, erlotinib, and cisplatin. *Dig Dis Sci.* 2010 Oct;55(10):2785-96. PMID: 20112065.

Wang Y, Guan X. GLP-2 potentiates L-type  $Ca^{2+}$  channel activity associated with stimulated glucose uptake in hippocampal neurons. *Am J Physiol Endocrinol Metab.* 2010 Feb;298(2):E156-66. PMID: 19920220.

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.

Mojsos 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.