



LKT Laboratories, Inc.

## Growth Hormone Releasing Peptide 2

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### Product Information

Product ID G2968

CAS No. 158861-67-7

**Chemical Name**

Synonym Pralmorelin, KP 102, GHRP-2

Formula C<sub>45</sub>H<sub>54</sub>O<sub>6</sub>N<sub>9</sub>

Formula Wt. 818.0

Melting Point

Purity ≥95%

Solubility

Store Temp -20°C

Ship Temp Ambient

**Description**

Growth hormone releasing peptide 2 (GHRP-2) is a peptide that induces the release of growth hormone and secretion of cAMP, adrenocorticotrophic hormone (ACTH), and insulin-like growth factor 1 (IGF-1) in vitro and in vivo through binding the ghrelin receptor. GHRP-2 exhibits orexigenic, gastrointestinal modulatory, antioxidative, and anti-inflammatory activities. In animal models, GHRP-2 increases food intake and inhibits gastrointestinal contractility. GHRP-2 stimulates release of ghrelin and also decreases morphine-induced analgesia in various animal models. In vitro and in vivo, GHRP-2 decreases levels of superoxide anions and lipoxigenase, decreasing production of peroxides and accumulation of lipids. In animal models of lung injury, GHRP-2 attenuates LPS-induced increases in TNF-α and IL-6 and suppresses activation of NF-κB.

H-D-Ala-D-2-Nal-Ala-Trp-D-Phe-Lys-NH<sub>2</sub>

### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
G2968	0.5 mg	\$113.20
G2968	1 mg	\$192.20
G2968	2.5 mg	\$340.20

**References**

Zeng P, Chen JX, Yang B, et al. Attenuation of systemic morphine-induced analgesia by central administration of ghrelin and related peptides in mice. *Peptides*. 2013 Dec;50:42-9. PMID: 24113541.

Peroni CN, Hayashida CY, Nascimento N, et al. Growth hormone response to growth hormone-releasing peptide-2 in growth hormone-deficient little mice. *Clinics (Sao Paulo)*. 2012;67(3):265-72. PMID: 22473409.

Tsukamoto N, Otsuka F, Miyoshi T, et al. Functional interaction of bone morphogenetic protein and growth hormone releasing peptide in adrenocorticotropin regulation by corticotrope cells. *Mol Cell Endocrinol*. 2011 Sep 15;344(1-2):41-50. PMID: 21742013.

Li G, Li J, Zhou Q, et al. Growth hormone releasing peptide-2, a ghrelin agonist, attenuates lipopolysaccharide-induced acute lung injury in rats. *Tohoku J Exp Med*. 2010 Sep;222(1):7-13. PMID: 20805679.

Titterton JS, Sukhanov S, Higashi Y, et al. Growth hormone-releasing peptide-2 suppresses vascular oxidative stress in ApoE<sup>-/-</sup> mice but does not reduce atherosclerosis. *Endocrinology*. 2009 Dec;150(12):5478-87. PMID: 19819949.

Kudoh K, Shibata C, Funayama Y, et al. The effect of growth hormone releasing peptide-2 on upper gastrointestinal contractile activity and food intake in conscious dogs. *J Gastroenterol*. 2009;44(4):297-304. PMID: 19271111.

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