ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

□ Cat. # SP-55292-1 **Glucagon-like Peptide II (GLP-2/GLP2, Human)** **SIZE: 0.5 mg**

THE GLUCAGON-LIKE PEPTIDES (GLPs) are produced in open type gut endocrine cells of the small and large intestine and play diverse roles in the regulation of energy homeostasis.

Glucagon-like peptide-2 (GLP-2) is created by specific post-translational proteolytic cleavage of pro glucagon in a process that also liberates the related glucagon-like peptide-1 (GLP-1). GLP-2 is produced by the intestinal endocrine L cell and by various neurons in the central nervous system

GLP2 stimulates intestinal growth and regulates gastric motility, gastric acid secretion, intestinal hexose transport, and increases the barrier function of the gut epithelium, reduction in bone breakdown and neuroprotection. GLP-2 significantly enhances the surface area of the mucosal epithelium via stimulation of crypt cell proliferation and inhibition of apoptosis in the enterocyte and crypt compartments.GLP-2 may act in an endocrine fashion to link intestinal growth and metabolism with nutrient intake. GLP-2 and related analogs may be treatments for short bowel syndrome, Crohn's disease, osteoporosis and as adjuvant therapy during cancer chemotherapy.

The discovery of GLP-2's potent growth-promoting and cytoprotective effects in the gastrointestinal (GI) tract stimulated interest in its use as a therapeutic agent for the treatment of GI diseases involving malabsorption, inflammation, and/or mucosal damage. Current research has focused on determining the physiological mechanisms contributing to the effects of GLP-2 and factors regulating its biological mechanisms of action.

Sources of Peptide

Cat # SP-55292-1

Sequence: H-His-Ala-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

Mol Wt: 3922.38
Form: Powder
Purity >95%

After reconstitution in water, store solution in small aliquots at -20oC for 3-6 months. Do not freeze and thaw or store diluted solutions.

Storage: Store powder at -20oC for up to 6 months.

Stability: 6-12 months at –20°C or below.

Shipping: 4°C for solutions and room temp for powder

General References: (1) Daniel et al. The Journal of Clinical Endocrinology & Metabolism April 1, 2001; 86 :4 1759-1764. (2)Estall Annual Review of Nutrition Vol. 26: 391-411.(3) Korner M, et al. Mol Cell Endocrinol, 2012 Nov 25.

*This product is for In vitro research use only.

Related Items

Catalog#	ProdDescription
GLP15-A	Anti-human Glucagon like peptide 1 (GLP-1/GLP1) IgG #1, aff pure
GLP15-P	Human Glucagon like peptide 1 (GLP-1/GLP1) Control/blocking peptide #1
GLP16-P-500	Human Glucagon like peptide 1 (GLP-1/GLP1, 1-36) amide
GLP17-P-500	Human Glucagon like peptide 1 (GLP-1/GLP1, 7-36) amide
GLP18-P-500	Human Glucagon like peptide 1, (GLP-1/GLP1, Ser8, 7-36) amide
GLP19-P-500	Human Glucagon like peptide 1 (GLP-1/GLP1, 7-37)
SP-51018-1	Glucagon-Like Peptide I (GLP1/GLP-1, 7-37); GLP-1 (7-37)
SP-52752-1	"Glucagon-Like Peptide I (GLP-1/GLP1, 7-36),
SP-71120-1	Glucagon - Like Peptide 1, (GLP-1/GLP1) amide, human
SP-88146-5	Glucagon- Like Peptide 1 (GLP1/GLP-1, 7 - 17) - Cys, GLP - 1 (7 - 17) – Cys (AA: His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Cys) (MW: 4421.92)

SP-55292-1 131030P

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