

Recombinant Human Glucagon

Cat. No. GCG-295H Lot. No. (See product label)

SPECIFICATION

Product Overview	Glucagon Like Peptide-2 contains 34 amino acids having a molecular mass of 3922.38 Dalton.
Source	Human
Description	GLP-2 functions as an intestinal growth factor, which stimulates intestinal epithelial growth. GLP2 is involved in diabetes-associated bowel growth. GLP2 enhances cell differentiation, playing a role as a cytokine and in tissue regeneration, and mediating cytoprotection. GLP2 is involved numerous therapeutic applications. GLP2 regulates signaling pathways coupled to cell proliferation and cell death by apoptosis. GLP-2 is produced by specific post-translational proteolytic cleavage of proglucagon. GLP-2 is manufactured by the intestinal endocrine L cell and by several neurons in the central nervous system.
Form	The protein (1mg/ml) was lyophilized with no additives.
Purity	Greater than 95.0% as determined by RP-HPLC.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized GLP-2 in sterile 18M μ -cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	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.

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Storage

Lyophilized GLP2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GLP2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Pathways

Neuroactive ligand-receptor interaction; Diabetes pathways; Integration of energy metabolism; Signaling by GPCR

GENE INFORMATION

Gene Name

GCG glucagon [Homo sapiens]

Official Symbol

GCG

Synonyms

GCG; glucagon; GLP1; GLP2; GRPP; glucagon-like peptide 1; glucagon-like peptide 2; glicentin-related polypeptide

Gene ID

2641

mRNA Refseq

NM_002054

Protein Refseq

NP_002045

MIM

138030

UniProt ID

P01275

Chromosome Location

2q36-q37

Function

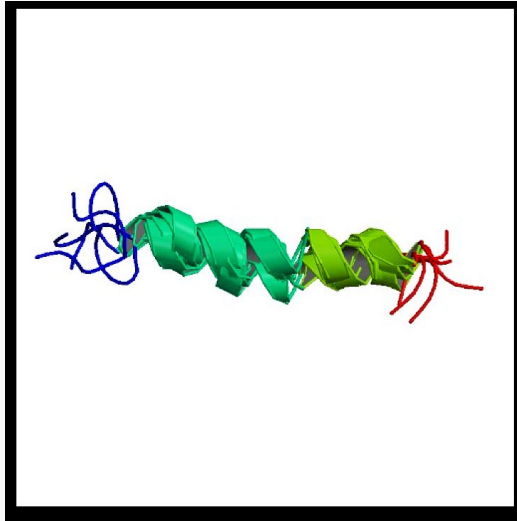
hormone activity

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