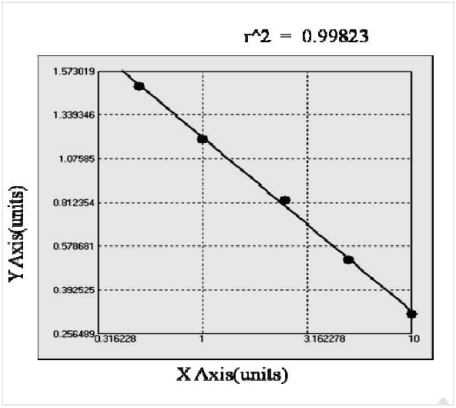
Glucagon Like Peptide 2 (GLP-2) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Glucagon Like Peptide 2 (GLP-2), ELISA Kit
Full Product Name	Chicken Glucagon Like Peptide 2 ELISA Kit
Product Gene Name	GLP-2 elisa kit
Species Reactivity	Chicken
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	20,909 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (162999379..163008914, complement). Location: 2q36-q37
OMIM	138030
3D Structure	ModBase 3D Structure for P01275
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for GLP-2 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for GLP-2 elisa kit	MBS742017 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Glucagon Like Peptide 2 (GLP-2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GLP-2. The ELISA analytical biochemical technique of the MBS742017 kit is based on GLP-2 antibody-GLP-2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GLP-2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GLP-2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of GLP-2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Typical Testing Data/Standard Curve (for reference only) of GLP-2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLP-2. It may not necessarily be applicable to this product.

NCBI GI #	4503945
NCBI GeneID	2641
NCBI Accession #	NP_002045.1
UniProt Primary Accession #	P01275
UniProt Secondary Accession #	Q53TP6; A6NN65
UniProt Related Accession #	P01275
GenBank Nucleotide #	NM_002054.4
NCBI Official Full Name	glucagon preproprotein
NCBI Official Synonym Full Names	glucagon
NCBI Official Symbol	GCG
NCBI Official Synonym Symbols	GLP1; GLP2; GRPP
UniProt Protein Name	Glucagon
UniProt Synonym Protein Names	Incretin hormone
Protein Family	Glucagon-like peptide 2 receptor
UniProt Gene Name	GCG
UniProt Synonym Gene Names	GRPP; OXM; OXY; GLP-1; GLP-1(7-37); GLP-1(7-36); GLP-2
UniProt Entry Name	GLUC_HUMAN
NCBI Protein Information	glucagon; preproglucagon; glucagon-like peptide 1; glucagon-like peptide 2; glicentin-related polypeptide
NCBI Summary for GLP-2	The protein encoded by this gene is actually a preproprotein that is cleaved into four distinct mature peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon. [provided by RefSeq, Jul 2008]

UniProt Comments for GLP-2	GCG: Glucagon plays a key role in glucose metabolism and homeostasis. Regulates blood glucose by increasing gluconeogenesis and decreasing glycolysis. A counterregulatory hormone of insulin, raises plasma glucose levels in response to insulin-induced hypoglycemia. Plays an important role in initiating and maintaining hyperglycemic conditions in diabetes. Glucagon release is stimulated by hypoglycemia and inhibited by hyperglycemia, insulin, and somatostatin. GLP-1 and GLP-2 are induced in response to nutrient ingestion. Glucagon is secreted in the A cells of the islets of Langerhans. GLP-1, GLP-2, oxyntomodulin and glicentin are secreted from enteroendocrine cells throughout the gastrointestinal tract. GLP1 and GLP2 are also secreted in selected neurons in the brain. Belongs to the glucagon family. Protein type: Hormone; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 2q36-q37 Cellular Component: extracellular space; endoplasmic reticulum lumen; extracellular region; plasma membrane Molecular Function: identical protein binding; protein binding; hormone activity; glucagon receptor binding; receptor binding Biological Process: response to starvation; G-protein signaling, coupled to cAMP nucleotide second messenger; G-protein coupled receptor protein signaling pathway; cell proliferation; cellular protein metabolic process; positive regulation of protein binding; positive regulation of protein kinase activity; positive regulation of cAMP biosynthetic process; energy reserve metabolic process; feeding behavior; positive regulation of histone H3-K4 methylation; signal transduction; positive regulation of peptidyl-serine phosphorylation; regulation of insulin secretion; negative regulation of apoptosis
Research Articles on GLP-2	**1.** With G9a and GLP1 as representative Protein methyltransferases (PMTs), it demonstrated the use of methionine analogues, a MAT variant and engineered PMTs for substrate labeling in vitro and genome-wide chromatin modifications within living cells.
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