

Human Glucagon ELISA Kit | GCG elisa kit

Human Glucagon ELISA Kit

CATALOG # AAA261809	REACTIVITY Human	APPLICATIONS ELISA
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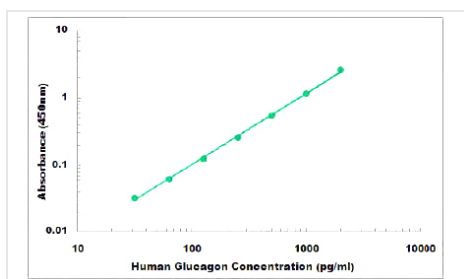
PRODUCT SYNONYMS

Glucagon; Human Glucagon ELISA Kit; GCG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Glucagon ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Glucagon proteins within the range of 31.3 pg/ml - 2000 pg/ml.
Sequence Length	180
Samples	Cell Culture Supernatants, Serum, Plasma.
Sensitivity	7 pg/ml.
Applicable Applications for GCG elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCG elisa kit	Principle of the Assay The Human Glucagon ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Glucagon in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human Glucagon coated on a 96-well plate. Standards and samples are pipetted into the wells and Glucagon present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Glucagon antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Glucagon bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Glucagon is a 29 amino acid peptide produced by the pancreas that plays a critical role in glucose metabolism and homeostasis. The Glucagon precursor mRNA is expressed by alpha cells of the pancreas, L cells of the intestine, and in the brain. Only the pancreatic a-cells express the prohormone convertase PC2, also called PCSK2, which is required to produce Glucagon. Intestinal L cells instead express the prohormone convertase PC1, which processes the precursor to the Glucagon-overlapping peptides glicentin and oxyntomodulin. L cells also produce two Glucagon-like peptides, GLP-1 and GLP-2 that are derived from the same Glucagon precursor and influence glucose metabolism, but do not share any common sequence with Glucagon.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	125987831
NCBI GeneID	2641
UniProt Accession #	P01275; Q53TP6; A6NN65
Molecular Weight	20,909 Da
NCBI Official Full Name	Glucagon
NCBI Official Synonym Full Names	glucagon
NCBI Official Symbol	GCG
NCBI Official Synonym Symbols	GLP1; GLP2; GRPP
NCBI Protein Information	glucagon
UniProt Protein Name	Glucagon
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

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.