

Insulin ELISA Kit | INS elisa kit

Human Insulin

CATALOG #
AAA59104

PRODUCT SYNONYMS

Insulin; Human Insulin; Insulin Human ELISA Kit; INS elisa kit

PRODUCT SPECIFICATIONS

Sequence Length	110
Samples	Mouse Serum, Plasma, Body Fluids, Tissue Lysates Or Cell Culture Supernates
Assay Type	Sandwich
Detection Range	0 uIU/ml-140 uIU/ml
Sensitivity	< 5 uIU/ml
Preparation and Storage	Store at 4 degree C for 12 months.

IMAGES

Typical Data & Standard Curve
Results of a typical standard run of a Human Insulin ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	uIU/ml	0	8	16	32	80	140
Y	OD450	0.042	0.062	0.236	0.576	1.437	2.276

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for INS elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Insulin monoclonal antibody was pre-coated onto 96-well plates. And the HRP conjugated anti-Insulin polyclonal antibody was used as detection antibodies. The standards, test samples and HRP conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Insulin amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Insulin can be calculated!!
Background/Introduction: Insulin, synthesized by the beta cells of the islets of Langerhans, consists of 2 dissimilar polypeptide chains, A and B, which are linked by 2 disulfide bonds. The human insulin gene contains 3 exons; exon 2 encodes the signal peptide, the B chain, and part of the C peptide, while exon 3 encodes the remainder of the C peptide and the A chain. Insulin has a potent acute antiinflammatory effect, including a reduction in intranuclear NF-kappa-B, an increase in IKB, and decreases in the generation of reactive oxygen species. It causes cells in the liver, muscle, and fat tissue to take up glucose from the blood, storing it as glycogen inside these tissues, and improved insulin-stimulated glucose uptake after endurance training results from hemodynamic adaptations as well as increased cellular protein content of individual insulin signaling components and molecules involved in glucose transport and metabolism.

NCBI AND UNIPROT INFORMATION

NCBI GI #	386828
NCBI GeneID	3630

Molecular Weight	21,537 Da
NCBI Official Full Name	insulin
NCBI Official Synonym Full Names	insulin
NCBI Official Symbol	INS
NCBI Official Synonym Symbols	IDDM; ILPR; IRDN; IDDM1; IDDM2; MODY10
NCBI Protein Information	insulin
UniProt Protein Name	Insulin
UniProt Gene Name	INS
UniProt Entry Name	INS_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.

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Online datasheet: <https://www.aaabiotech.com/elisa-kits/insulin/59104>