

Rat Insulin ELISA Kit | INS elisa kit

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CATALOG #
AAA17361

REACTIVITY
Rat

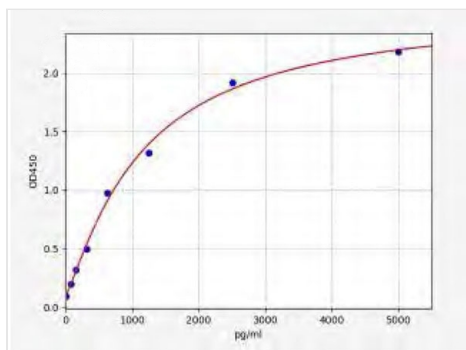
PRODUCT SYNONYMS

Insulin; Rat Insulin ELISA Kit; Insulin/INS; INS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Specifically recognize INS, no obvious cross reaction with other analogues
Sequence Length	110
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for INS elisa kit	Background: Insulin (INS) is a protein hormone produced by the beta cells of the pancreas. It plays a crucial role in regulating glucose metabolism. INS lowers blood glucose levels by promoting the uptake and utilization of glucose by cells, and by promoting the storage of glucose in the liver and muscles. It also promotes the synthesis of proteins and fats, and inhibits the breakdown of proteins and fats, to maintain a balance of nutrients within the body. Insufficient levels of INS can lead to diabetes. Type 1 diabetes is caused by an absolute deficiency of insulin, usually due to the immune system attacking and destroying beta cells in the pancreas. Type 2 diabetes, on the other hand, is caused by insufficient insulin or insulin resistance, and is often related to obesity, lifestyle, and genetic factors. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti INS antibody was pre-coated onto the 96-well plate. The biotin conjugated anti INS antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with INS conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of INS in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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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/ins-rat-elisa-kits/insulin/17361>