

Human Insulin (INS) CLIA Kit | INS clia kit

Human Insulin (INS) CLIA Kit

CATALOG #	REACTIVITY	APPLICATIONS
AAA188398	Human	CLIA (Chemiluminescence Immunoassay)

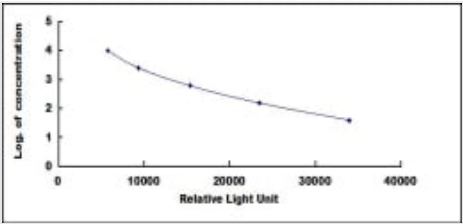
PRODUCT SYNONYMS

Insulin (INS); Human Insulin (INS) CLIA Kit; Insulin; INS clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Insulin (INS). No significant cross-reactivity or interference between Insulin (INS) and analogues was observed.
Sequence Length	110
Assay Type	Competitive Inhibition
Samples	Serum, plasma, cell culture supernates and other biological fluids
Detection Range	39.1-10,000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 15.1pg/mL
Applicable Applications for INS clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Insulin (INS) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Insulin (INS) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to Insulin (INS). A competitive inhibition reaction is launched between biotin labeled Insulin (INS) and unlabeled Insulin (INS) (Standards or samples) with the pre-coated antibody specific to Insulin (INS). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Insulin (INS) in the sample. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is reverse proportional to the Insulin (INS) level in the sample or standard.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	386828
NCBI GeneID	3630
UniProt Accession #	P01308
NCBI Official Full Name	insulin
NCBI Official Synonym Full Names	insulin
NCBI Official Symbol	INS
NCBI Official Synonym Symbols	IDDM; ILPR; IRDN; IDDM1; IDDM2; PNDM4; 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.