

Insulin (INS) CLIA Kit | INS clia kit

CLIA Kit for Insulin (INS)

CATALOG #
AAA129830

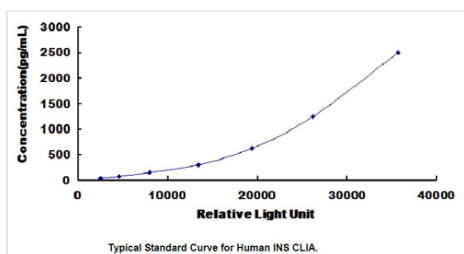
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Specificity	This assay has high sensitivity and excellent specificity for detection of human INS. No significant cross-reactivity or interference between human INS and analogues was observed.
Sequence Length	110
Intended Uses	The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of INS in human serum, plasma and other biological fluids.
Detection Range	39-2,500pg/mL. The standard curve concentrations used for the CLIA's were 2,500pg/mL, 1,250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL, 78pg/mL, 39pg/mL.
Sensitivity	The minimum detectable dose of human INS is typically less than 15pg/mL. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean RLU value of 20 replicates of the zero standard added by their three standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level human INS were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level human INS were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
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)

ADDITIONAL INFORMATION

Related Product Information for INS clia kit	Principle of the assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to INS. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for INS . Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. 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 proportional to the INS level in the sample or standard.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	386828
NCBI GeneID	3630
UniProt Accession #	P01308; Q5EEX2
Molecular Weight	11,981 Da
NCBI Official Full Name	insulin
NCBI Official Synonym Full Names	insulin
NCBI Official Symbol	INS
NCBI Official Synonym Symbols	ILPR; IRDN; IDDM2; MODY10
NCBI Protein Information	insulin; proinsulin; preproinsulin
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.