

Rat Insulin (INS) CLIA Kit | INS clia kit

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CATALOG # AAA188399	REACTIVITY Rat	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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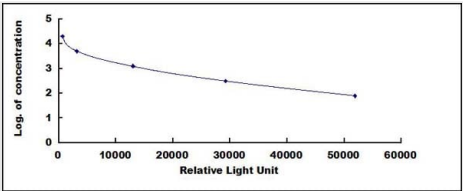
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
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, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	78.1-20,000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 28.3pg/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 #	9506815
NCBI GeneID	24505
NCBI Accession #	NP_062002.1
NCBI GenBank Nucleotide #	NP_062002.1
UniProt Accession #	P01322
NCBI Official Full Name	insulin-1 preproprotein
NCBI Official Synonym Full Names	insulin 1
NCBI Official Symbol	Ins1
NCBI Protein Information	insulin-1
UniProt Protein Name	Insulin-1
UniProt Gene Name	Ins1
UniProt Synonym Gene Names	Ins-1
UniProt Entry Name	INS1_RAT

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://stage.aaabiotech.com/rat-clia-kits/insulin-ins/188399>