

## Human Insulin (INS) CLIA Kit | INS clia kit

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CATALOG #  
**AAA140998**

REACTIVITY  
**Human**

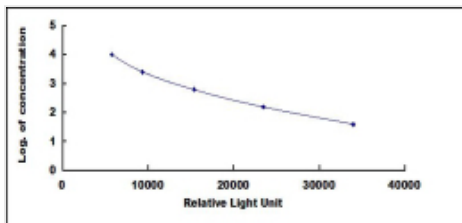
### PRODUCT SYNONYMS

Insulin (INS); Human Insulin (INS) CLIA Kit; 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                                       | 15.1pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Application                                       | Chemiluminescent immunoassay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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.<br>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 | 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. |
| Product Categories/Family for INS clia kit   | Metabolic pathway; Endocrinology; Hormone 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.