

## Insulin (INS) ELISA Kit | INS elisa kit

Multi-species Insulin (INS) ELISA Kit

CATALOG #  
**AAA189642**

REACTIVITY  
**Human, Mouse, Rat, Dog**

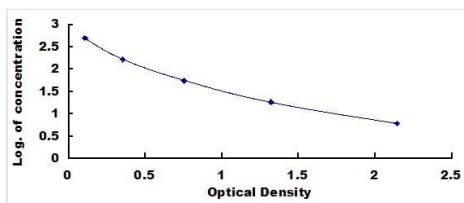
### PRODUCT SYNONYMS

Insulin (INS); Multi-species Insulin (INS) ELISA Kit; Human/Mouse/Rat/Dog Insulin (INS) (Competitive ELISA) ELISA Kit; INS elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human, Mouse, Rat, Dog                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity             | This assay has high sensitivity for detection of Insulin. 100% cross-reactivity of Insulin was observed among human, mouse, rat and canine.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Samples                 | Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Detection Range         | 6.17-500pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sensitivity             | < 2.74pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level insulin 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 insulin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage | Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life)<br>Shelf Life: 8 months<br>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

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| Related Product Information for INS elisa kit | <p>Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to insulin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled insulin and unlabeled insulin (Standards or samples) with the pre-coated antibody specific to insulin. 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 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of insulin in the sample.</p> <p>Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of insulin in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Due to the 96% homology of the sequence among different species, the kit can be used to detect human, mouse, rat and canine samples.</p> |
| Product Categories/Family for INS elisa kit   | Metabolic pathway; Endocrinology; Hormone metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**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/dog-human-mouse-rat-elisa-kits/insulin-ins/189642>