

## Human C-Peptide (CP) CLIA Kit | CP clia kit

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| CATALOG #<br><b>AAA188396</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>CLIA (Chemiluminescence Immunoassay)</b> |
|-------------------------------|----------------------------|-------------------------------------------------------------|

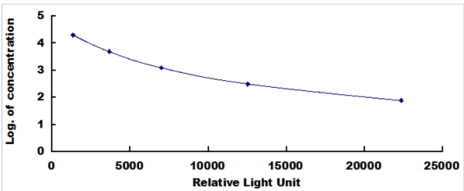
### PRODUCT SYNONYMS

C-Peptide (CP); Human C-Peptide (CP) CLIA Kit; C-Peptide; CP clia kit

### PRODUCT SPECIFICATIONS

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity                             | This assay has high sensitivity and excellent specificity for detection of C-Peptide (CP). No significant cross-reactivity or interference between C-Peptide (CP) 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 31.5pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Applicable Applications for CP clia kit | CLIA (Chemiluminescence Immunoassay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Precision                               | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level C-Peptide (CP) were tested 20 times on one plate, respectively.<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level C-Peptide (CP) were tested on 3 different plates, 8 replicates in each plate.<br>CV(%) = SD/meanX100<br>Intra-Assay: CV<10%<br>Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Principle                          | The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to C-Peptide (CP). A competitive inhibition reaction is launched between biotin labeled C-Peptide (CP) and unlabeled C-Peptide (CP) (Standards or samples) with the pre-coated antibody specific to C-Peptide (CP). 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 C-Peptide (CP) 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 C-Peptide (CP) 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.<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)

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.