

Human Interleukin-10 (IL-10) ELISA Kit | IL-10 elisa kit

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CATALOG #
AAA266518

REACTIVITY
Human

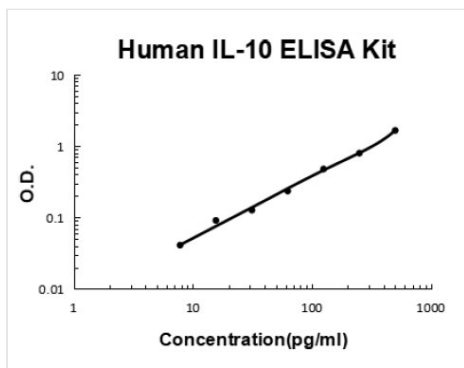
PRODUCT SYNONYMS

Interleukin-10 (IL-10); Human Interleukin-10 (IL-10) ELISA Kit; IL-10 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Detection Range	7.8 pg/ml - 500 pg/ml
Sensitivity	<0.5 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays): Three samples of known concentration were tested in separate assays to assess inter- assay precision.
Preparation and Storage	Store at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-10 elisa kit	Background: Interleukin-10, also called cytokine synthesis inhibitory factor, is implicated in tumorigenesis, and it has been shown that polymorphisms in its gene promoter correlate with differential amounts of production. IL-10 is an important cytokine with anti-inflammatory, anti-immune, and antifibrotic functions. It is also an important regulatory cytokine whose involvement extends into diverse areas of the human immune system. IL-10 is a recently described natural endogenous immunosuppressive cytokine that has been identified in human, murine, and other organisms. IL-10 significantly affects chemokine biology, because human IL-10 inhibits chemokine production and is a specific chemotactic factor for CD8+ T cells. It suppresses the ability of CD4+ T cells, but not CD8+ T cells, to migrate in response to IL-8. Interleukin-10 gene polymorphisms and interleukin-10 production capability may contribute to the development of skin squamous cell carcinomas after renal transplantation.¹ The interleukin-10 locus contributes to the heritability of psoriasis susceptibility. With regard to sudden infant death, IL-10 is of special interest. This is an immunoregulatory cytokine that plays an important role in the development of infectious disease. The mIL-10 gene is mapped to mouse chromosome 1 and the hIL-10 gene is also mapped to human chromosome 1. The standard product used in this kit is recombinant human IL-10, consisting of 160 amino acids with the molecular mass of 18.6kDa. Principle of the Assay: To measure Human IL10, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human IL10 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human IL10 in the sample. Intended Uses: Human Interleukin-10 ELISA kit is a solid-phase immunoassay specially designed to measure Human IL10 with a 96-well strip plate that is pre-coated with antibody specific for IL10. The detection antibody is a biotinylated antibody specific for IL10. The capture antibody is monoclonal antibody from mouse and the detection antibody is monoclonal antibody from mouse. The kit contains recombinant Human IL10 with immunogen: Expression system for standard: E.coli; Immunogen sequence: S19-N178. The kit is analytically validated with ready-to-use reagents.
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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.