

Human IL-10 ELISA Kit | IL-10 elisa kit

Human IL-10 ELISA KIT

CATALOG #
AAA309863

REACTIVITY
Human

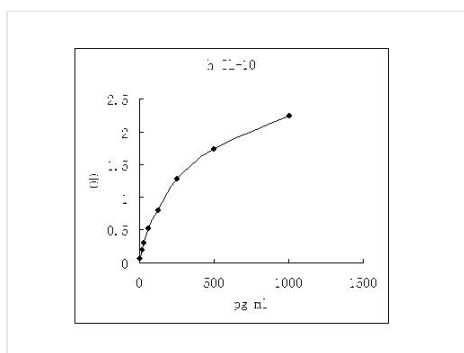
PRODUCT SYNONYMS

IL-10; Human IL-10 ELISA KIT; Human IL-10; IL-10 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL-10 Ligand
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	15.625-1000pg/mL
Sensitivity	7pg/mL
Assay Time	3 hours
Sample Volume	20 uL
Detection Method	Colorimetric
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

Representative standard curve for IL-10 ELISA. IL-10 was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

Related Product Information for IL-10 elisa kit	Interleukin 10 (IL-10), initially designated cytokine synthesis inhibitory factor (CSIF), was originally identified as a product of murine T helper 2 (TH2) clones that suppressed the production of cytokines by T helper 1 (TH1) clones responding to antigen stimulation in the presence of monocyte/macrophage antigen-presenting cells (1, 2).The human homologue of mouse IL-10 was subsequently cloned by cross-hybridization (3). Human and mouse IL-10 are 81% and 73% identical at the nucleotide and amino acid levels, respectively. Mouse, rat and human IL-10 cDNAs encode 178 amino acid (aa) residue precursor polypeptides with hydrophobic signal peptides that are cleaved to generate 160 aa residue mature proteins. There is at least 73% aa identity between the proteins from the three species (4). In contrast to mouse IL-10, human IL-10 appears to be non-glycosylated. Both mouse and human IL-10 exist as non-covalently-linked homodimers in solution. Although human IL-10 is active on mouse cells, mouse IL-10 does not show species cross-reactivity on human cells.IL-10 is a pleiotropic cytokine that can exert either immunosuppressive or immunostimulatory effects on a variety of cell types. human IL-10 can inhibit monocyte/macrophage-dependent, antigen-stimulated cytokine synthesis by human PBMC and NK cells (5). L-10 can inhibit production or function of a macrophage membrane-bound costimulator required for activation of T cells and NK cells.IL-10 is a potent modulator of monocyte/macrophage function. IL-10 also enhances the release of soluble TNF receptors and inhibits the expression of surface ICAM-1 and B7 (6, 7). Finally, IL-10 has been reported to suppress the synthesis of superoxide anion (8) plus reactive oxygen intermediates (ROI), and either inhibit or facilitate nitric oxide synthesis, depending on the time of exposure to activated macrophages (9). IL-10 has marked effects on B cells. IL-10 also has documented activity on endothelial cells, where it mimics IL-4 (10), and on thymocytes (11) and mast cells, where it acts as a growth costimulator (12, 13).
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	385202765
NCBI GeneID	397106
Molecular Weight	19,934 Da
NCBI Official Full Name	IL-10, partial
NCBI Official Symbol	IL10
NCBI Official Synonym Symbols	CSIF; IL-10
NCBI Protein Information	interleukin-10
UniProt Protein Name	Interleukin-10
UniProt Gene Name	IL10
UniProt Synonym Gene Names	IL-10; CSIF

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.