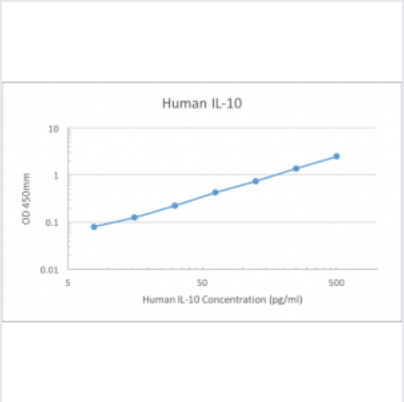
Il-10 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	IL-10, ELISA Kit
Full Product Name	Human IL-10 Pre-Coated ELISA Kit
Product Gene Name	IL-10 elisa kit
Species Reactivity	Human
Assay Type	Solid Phase Sandwich ELISA: 96-Well Strip Plate
Detection Range	7.8pg/mL-500pg/mL
Sensitivity	<0.5pg/ml
Specificity	Natural and recombinant Human IL-10
Preparation and Storage	Store the unopened product at 2-8 degree C.
Molecular Weight	178
OMIM	gene 614395
3D Structure	ModBase 3D Structure for P22301
Components	Anti-Human IL-10 Pre-coated 96-well strip microplate Human IL-10 Standard Human IL-10 Biotinylated antibody (100x) Avidin-Biotin-Peroxidase Complex (100x) Sample Diluent Antibody Diluent Avidin-Biotin-Peroxidase Diluent Wash Buffer Concentrate (Powder for 1000mL) Color Developing Reagent Stop Solution Plate Sealers
Interference	No detectable cross-reactivity with other relevant proteins
Related Product Information for IL-10 elisa kit	IL-10 is an immunosuppressive cytokine produced by a variety of mammalian cell types including macrophages, monocytes, T cells, B cells and keratinocytes. IL-10 inhibits the expression of proinflammatory cytokines such as IL-1 and TNF-alpha. Like IL-10, IL-10 enhances humoral immune responses and attenuates cell-mediated immune reactions. Human IL-10 is active on murine cells, but murine IL-10 is inactive on human cells. Human IL-10 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human IL-10 with a 96-well strip plate that is pre-coated with mouse monoclonal antibody specific for IL-10. It contains E Coli-expressed recombinant Human IL-10. The detection antibody is a biotinylated goat polyclonal antibody specific for IL-10. The kit is analytically validated with ready to use reagents.
Other Notes	Small volumes of IL-10 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL-10 purchase	MBS697387 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IL-10, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IL-10. The ELISA analytical biochemical technique of the MBS697387 kit is based on IL-10 antibody-IL-10 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL-10 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL-10. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of IL-10 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-10. It may not necessarily be applicable to this product.

NCBI GI #	124292
NCBI GeneID	3586
NCBI Accession #	P22301.1
UniProt Primary Accession #	P22301
UniProt Related Accession #	P22301
NCBI Official Full Name	Interleukin-10
NCBI Official Synonym Full Names	interleukin 10
NCBI Official Symbol	IL10
NCBI Official Synonym Symbols	CSIF; TGIF; GVHDS; IL-10; IL10A
UniProt Protein Name	Interleukin-10
UniProt Synonym Protein Names	Cytokine synthesis inhibitory factor; CSIF
UniProt Gene Name	IL10
UniProt Synonym Gene Names	IL-10; CSIF
UniProt Entry Name	IL10_HUMAN
NCBI Protein Information	interleukin-10; T-cell growth inhibitory factor; cytokine synthesis inhibitory factor
NCBI Summary for IL-10	The protein encoded by this gene is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract. Mutations in this gene are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.[provided by RefSeq, May 2011]

UniProt Comments for IL-10	IL10: Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by helper T-cells. Belongs to the IL-10 family. Protein type: Cytokine; Motility/polarity/chemotaxis; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 1q31-q32 Cellular Component: extracellular space Molecular Function: growth factor activity; cytokine activity; interleukin-10 receptor binding Biological Process: negative regulation of chronic inflammatory response to antigenic stimulus; B cell proliferation; regulation of isotype switching; leukocyte chemotaxis; positive regulation of transcription, DNA-dependent; response to glucocorticoid stimulus; positive regulation of JAK-STAT cascade; negative regulation of B cell proliferation; negative regulation of membrane protein ectodomain proteolysis; response to insulin stimulus; negative regulation of interferon-alpha biosynthetic process; negative regulation of T cell proliferation; cytoplasmic sequestering of NF-kappaB; cell-cell signaling; negative regulation of interferon-gamma production; response to molecule of bacterial origin; positive regulation of MHC class II biosynthetic process; negative regulation of interleukin-6 production; negative regulation of tumor necrosis factor biosynthetic process; hemopoiesis; inflammatory response; aging; response to drug; response to inactivity; negative regulation of interleukin-12 production; positive regulation of B cell apoptosis; T-helper 2 type immune response; negative regulation of myeloid dendritic cell activation; negative regulation of nitric oxide biosynthetic process; negative regulation of cytokine secretion during immune response; regulation of gene expression; B cell differentiation; defense response to bacterium; negative regulation of MHC class II biosynthetic process; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription factor activity; receptor biosynthetic process; response to activity; regulation of sensory perception of pain; negative regulation of apoptosis; positive regulation of cytokine secretion Disease: Graft-versus-host Disease, Susceptibility To; Rheumatoid Arthritis; Human Immunodeficiency Virus Type 1, Susceptibility To
Research Articles on IL-10	**1.** Interleukin-10-1082 gene polymorphism is associated with papillary thyroid cancer.
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