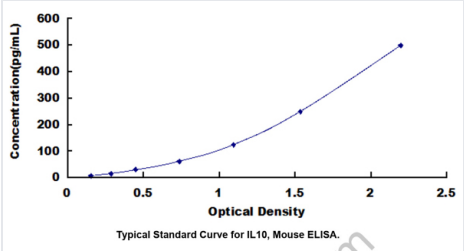
Interleukin 10 (IL10) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Interleukin 10 (IL10), ELISA Kit
Full Product Name	Mouse Interleukin 10 (IL10) ELISA Kit
Product Gene Name	IL10 elisa kit
Product Synonym Names	CSIF; IL10A; TGIF; Cytokine Synthesis Inhibitory Factor
Species Reactivity	Mouse
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	7.8-500pg/mL
Sensitivity	< 3.0pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of IL10. No significant cross-reactivity or interference between IL10 and analogues was observed.
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. 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.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level IL10 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IL10 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	20,517 Da
OMIM	M57627 mRNA
3D Structure	ModBase 3D Structure for P22301
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.
Related Product Information for IL10 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to IL10. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to IL10. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain IL10, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of IL10 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of IL10 in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Other Notes	Small volumes of IL10 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 IL10 purchase	MBS2700943 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Interleukin 10 (IL10) 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 IL10. The ELISA analytical biochemical technique of the MBS2700943 kit is based on IL10 antibody-IL10 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL10 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL10. 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 IL10 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL10. It may not necessarily be applicable to this product.

NCBI GI #	10835141
NCBI GeneID	3586
NCBI Accession #	NP_000563.1
UniProt Primary Accession #	P22301
UniProt Related Accession #	P22301
GenBank Nucleotide #	NM_000572.2
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
Protein Family	Interleukin
UniProt Gene Name	IL10
UniProt Synonym Gene Names	IL-10; CSIF
NCBI Protein Information	interleukin-10
NCBI Summary for IL10	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 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.
Research Articles on IL10	**1.** Vitamin D inhibited IFN-gamma production and increased IL-10 production by PBMCs.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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