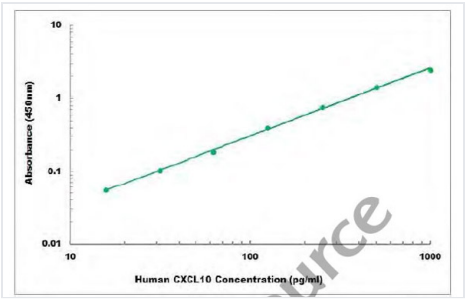
CXCL10 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	CXCL10, ELISA Kit
Full Product Name	Human CXCL10 ELISA Kit
Product Gene Name	CXCL10 elisa kit
Product Synonym Names	INP10; SCYB10; C-X-C motif chemokine 10; 10 kDa interferon gamma-induced protein; Gamma-IP10; IP-10; Small-inducible cytokine B10
Species Reactivity	Human
Samples	Cell culture supernatants, serum, plasma, urine
Sensitivity	< 8 pg/ml
Specificity	The Human CXCL10 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human CXCL10 proteins within the range of 15.6 pg/ml - 1000 pg/ml.
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	10,881 Da
OMIM	147310
3D Structure	ModBase 3D Structure for P02778
Applications Tested/Suitable for CXCL10 elisa kit	Sandwich ELISA (SE)
Related Product Information for CXCL10 elisa kit	Principle of the Assay: The MyBioSource' Human CXCL10 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human CXCL10 in Cell Culture Supernatants, Serum, Plasma, Urine. This assay employs an antibody specific for Human CXCL10 coated on a 96-well plate. Standards and samples are pipetted into the wells and CXCL10 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human CXCL10 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of CXCL10 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Chemokine (C-X-C motif) ligand 10 (CXCL10) or IP-10 is a small cytokine belonging to the CXC chemokine family that is also known as 10 kDa interferon-gamma-induced protein (gamma-IP10 or IP-10). CXCL10 is secreted by several cell types in response to IFN-gamma. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 has been attributed to several roles, such as chemoattraction for monocytes/macrophages, T cells, NK cells, and dendritic cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis.It is a potent inhibitor of angiogenesis in vivo. The gene for CXCL10 is located on human chromosome 4 in a cluster among several other CXC chemokines. It is a RAS target gene and is overexpressed in the majority of colorectal cancers.This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3.
Other Notes	Small volumes of CXCL10 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 CXCL10 purchase	MBS824608 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CXCL10, 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 CXCL10. The ELISA analytical biochemical technique of the MBS824608 kit is based on CXCL10 antibody-CXCL10 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CXCL10 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CXCL10. 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 CXCL10 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CXCL10. It may not necessarily be applicable to this product.

NCBI GI #	149999382
NCBI GeneID	3627
NCBI Accession #	NP_001556.2
UniProt Primary Accession #	P02778
UniProt Secondary Accession #	Q96QJ5
UniProt Related Accession #	P02778
GenBank Nucleotide #	NM_001565.3
NCBI Official Full Name	C-X-C motif chemokine 10
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 10
NCBI Official Symbol	CXCL10
NCBI Official Synonym Symbols	C7; IFI10; INP10; IP-10; crg-2; mob-1; SCYB10; gIP-10
UniProt Protein Name	C-X-C motif chemokine 10
UniProt Synonym Protein Names	10 kDa interferon gamma-induced protein; Gamma-IP10; IP-10; Small-inducible cytokine B10Cleaved into the following chain:CXCL10(1-73)
Protein Family	C-X-C motif chemokine
UniProt Gene Name	CXCL10
UniProt Synonym Gene Names	INP10; SCYB10; Gamma-IP10; IP-10
UniProt Entry Name	CXL10_HUMAN
NCBI Protein Information	C-X-C motif chemokine 10; gamma IP10; gamma-IP10; small-inducible cytokine B10; interferon-inducible cytokine IP-10; 10 kDa interferon gamma-induced protein; protein 10 from interferon (gamma)-induced cell line; small inducible cytokine subfamily B (Cys-X-Cys), member 10
NCBI Summary for CXCL10	This antimicrobial gene encodes a chemokine of the CXC subfamily and ligand for the receptor CXCR3. Binding of this protein to CXCR3 results in pleiotropic effects, including stimulation of monocytes, natural killer and T-cell migration, and modulation of adhesion molecule expression. [provided by RefSeq, Sep 2014]

UniProt Comments for CXCL10	CXCL10: Chemotactic for monocytes and T-lymphocytes. Binds to CXCR3. Belongs to the intercrine alpha (chemokine CxC) family. Protein type: Motility/polarity/chemotaxis; Chemokine; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q21 Cellular Component: extracellular space; extracellular region; external side of plasma membrane Molecular Function: heparin binding; protein binding; CXCR3 chemokine receptor binding; chemokine activity; cAMP-dependent protein kinase regulator activity; receptor binding Biological Process: muscle development; blood circulation; protein secretion; positive regulation of leukocyte chemotaxis; positive regulation of cAMP metabolic process; signal transduction; chemotaxis; regulation of cell proliferation; G-protein coupled receptor protein signaling pathway; negative regulation of angiogenesis; cell surface receptor linked signal transduction; response to vitamin D; cell-cell signaling; positive regulation of cell proliferation; response to gamma radiation; immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of release of sequestered calcium ion into cytosol; response to cold; inflammatory response; regulation of protein kinase activity; negative regulation of myoblast differentiation; defense response to virus
Research Articles on CXCL10	**1.** Serum CXCL10 levels reflect treatment responses in tuberculosis but that these are affected by baseline 25(OH)D levels.
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