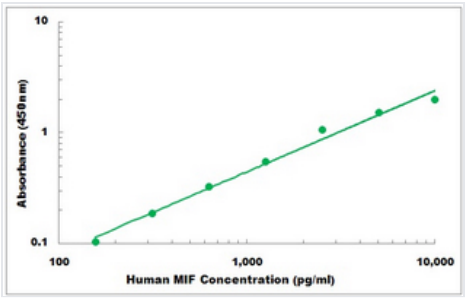
MIF ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	MIF, ELISA Kit
Full Product Name	Human MIF ELISA Kit
Product Gene Name	MIF elisa kit
Product Synonym Names	GLIF; MMIF; Macrophage migration inhibitory factor; MIF; Glycosylation-inhibiting factor; GIF; L-dopachrome isomerase; L-dopachrome tautomerase; Phenylpyruvate tautomerase
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma
Detection Range	156 pg/ml - 10000 pg/ml
Sensitivity	20 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	12,476 Da
OMIM	gene 604302
3D Structure	ModBase 3D Structure for P14174
Detection Method	Colorimetric
Applications Tested/Suitable for MIF elisa kit	Sandwich ELISA (SE)
Related Product Information for MIF elisa kit	Sandwich ELISA for quantitative detection of Human MIF concentrations.
Other Notes	Small volumes of MIF 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 MIF purchase	MBS824786 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the MIF, 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 MIF. The ELISA analytical biochemical technique of the MBS824786 kit is based on MIF antibody-MIF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MIF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MIF. 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 MIF elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	4505185
NCBI GeneID	4282
NCBI Accession #	NP_002406.1
UniProt Primary Accession #	P14174
UniProt Secondary Accession #	Q2V4Y5; Q6FHV0; A5Z1R8; B2R4S3
UniProt Related Accession #	P14174
GenBank Nucleotide #	NM_002415.1
NCBI Official Full Name	macrophage migration inhibitory factor
NCBI Official Synonym Full Names	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
NCBI Official Symbol	MIF
NCBI Official Synonym Symbols	GIF; GLIF; MMIF
UniProt Protein Name	Macrophage migration inhibitory factor
UniProt Synonym Protein Names	Glycosylation-inhibiting factor; GIF; L-dopachrome isomerase; L-dopachrome tautomerase (EC:5.3.3.12); Phenylpyruvate tautomerase
Protein Family	Macrophage migration inhibitory factor
UniProt Gene Name	MIF
UniProt Synonym Gene Names	GLIF; MMIF; MIF; GIF
UniProt Entry Name	MIF_HUMAN
NCBI Protein Information	macrophage migration inhibitory factor; L-dopachrome isomerase; L-dopachrome tautomerase; phenylpyruvate tautomerase
NCBI Summary for MIF	This gene encodes a lymphokine involved in cell-mediated immunity, immunoregulation, and inflammation. It plays a role in the regulation of macrophage function in host defense through the suppression of anti-inflammatory effects of glucocorticoids. This lymphokine and the JAB1 protein form a complex in the cytosol near the peripheral plasma membrane, which may indicate an additional role in integrin signaling pathways. [provided by RefSeq, Jul 2008]

UniProt Comments for MIF	MIF: a lymphokine involved in cell-mediated immunity, immunoregulation, and inflammation. It plays a role in the regulation of macrophage function in host defense through the suppression of anti-inflammatory effects of glucocorticoids. This lymphokine and the JAB1 protein form a complex in the cytosol near the peripheral plasma membrane, which may indicate an additional role in integrin signaling pathways. Also acts as a phenylpyruvate tautomerase. Protein type: Cytokine; Amino Acid Metabolism - tyrosine; Apoptosis; EC 5.3.2.1; Amino Acid Metabolism - phenylalanine; EC 5.3.3.12; Cell development/differentiation; Isomerase Chromosomal Location of Human Ortholog: 22q11.23 Cellular Component: nucleoplasm; extracellular space; cell surface; cytoplasm; extracellular region; vesicle Molecular Function: phenylpyruvate tautomerase activity; protein binding; hematopoietin/interferon-class (D200-domain) cytokine receptor binding; cytokine activity; dopachrome isomerase activity; chemoattractant activity; receptor binding Biological Process: DNA damage response, signal transduction by p53 class mediator; regulation of macrophage activation; positive regulation of lipopolysaccharide-mediated signaling pathway; carboxylic acid metabolic process; cell aging; negative regulation of cellular protein metabolic process; prostaglandin biosynthetic process; positive regulation of peptidyl-serine phosphorylation; positive regulation of MAP kinase activity; cell proliferation; negative regulation of DNA damage response, signal transduction by p53 class mediator; positive regulation of peptidyl-tyrosine phosphorylation; negative regulation of myeloid cell apoptosis; positive regulation of fibroblast proliferation; negative regulation of mature B cell apoptosis; cell surface receptor linked signal transduction; positive chemotaxis; positive regulation of B cell proliferation; innate immune response; inflammatory response; positive regulation of phosphorylation; positive regulation of cytokine secretion; negative regulation of apoptosis Disease: Rheumatoid Arthritis, Systemic Juvenile
Research Articles on MIF	**1.** MIF gene polymorphisms are associated with SLE susceptibility and with an increase of TNF-alpha serum levels in a Mexican-Mestizo population.
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