

Human MIF ELISA Kit | MIF elisa kit

Human MIF PicoKine ELISA Kit

CATALOG #
AAA45343

REACTIVITY
Human

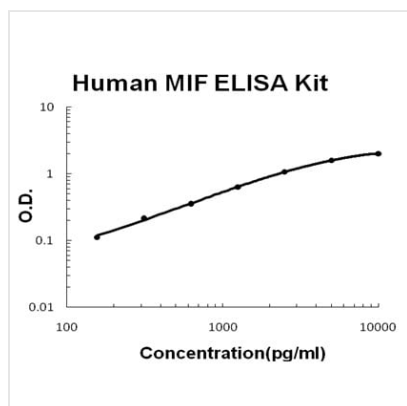
PRODUCT SYNONYMS

MIF; Human MIF PicoKine ELISA Kit; Macrophage migration inhibitory factor; macrophage migration inhibitory factor (glycosylation-inhibiting factor); GIF; GLIF; Glycosylation inhibiting factor; L dopachrome isomerase; L dopachrome tautomerase; Macrophage migration inhibitory factor (glycosylation inhibiting factor); MMIF; Phenylpyruvate tautomerase; MIF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human MIF
Sequence Length	115
Samples	Cell culture supernates, serum, plasma (heparin, EDTA) and human milk
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 20pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human MIF PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for MIF elisa kit

Principle of the assay: human MIF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for MIF has been precoated onto 96-well plates. Standards(E.coli, P2-A115) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MIF is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human MIF amount of sample captured in plate.

Background: Macrophage migration inhibitory factor (MIF) is a protein which in humans is encoded by the MIF gene. This gene is located to human chromosome 22q11.2. It is remarkably small; it has 3 exons separated by introns of only 189 and 95 bp, and covers less than 1 kb. This gene encodes a lymphokine that may be involved in cell-mediated immunity, immunoregulation, and inflammation. MIF 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 might form a complex in the cytosol near the peripheral plasma membrane, which may possibly indicate a role in integrin signaling pathways. MIF also plays a central role in the toxic response to endotoxemia and possibly septic shock. Macrophage migration inhibitory factor has been reported to interact with COP9 constitutive photomorphogenic homolog subunit 5, CD74, BNIPL, and CXCR4. The standard product used in this kit is recombinant human MIF, consisting of 115 amino acids with the molecular mass of 12.5kDa.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	4282
UniProt Accession #	I4AY87; P14174
Molecular Weight	12,476 Da
NCBI Official Synonym Full Names	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
NCBI Official Symbol	MIF
NCBI Official Synonym Symbols	GIF; GLIF; MMIF
NCBI Protein Information	macrophage migration inhibitory factor; L-dopachrome isomerase; L-dopachrome tautomerase; phenylpyruvate tautomerase
UniProt Protein Name	Macrophage migration inhibitory factor
UniProt Entry Name	I4AY87_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/mif/45343>