

Active Recombinant Human MIF

Cat. No. MIF-09H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MIF was expressed in E.coll.
Species	Human
Source	E.coli
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The specific activity is determined by binding rhCD74 in a functional ELISA.
Molecular Mass	Approximately 12.5 kDa, a single non-glycosylated polypeptide chain containing 115 amino acids.
AA Sequence	MPMFIVNTNV PRASVPDGFL SELTQQLAQA TGKPPQYIAV HVVPDQLMAF GGSEPCALCSLHSIGKIGG AQNRSYSKLL CGLLAERLRI SPDRVYINYY DMNAANVGWN NSTFA

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Endotoxin	Less than 1EU/g of rHuMIF as determined by LAL method.
Purity	> 97 % by SDS-PAGE and HPLC analyses
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	MIF macrophage migration inhibitory factor (glycosylation-inhibiting factor) [Homo sapiens (human)]
Official Symbol	MIF
Synonyms	MIF; macrophage migration inhibitory factor; GIF; GLIF; MMIF; phenylpyruvate tautomerase; glycosylation-inhibiting factor; EC 5.3.2.1; Glycosylation-inhibiting factor; Phenylpyruvate tautomerase
Gene ID	4282
mRNA Refseq	NM_002415

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Protein Refseq	NP_002406
MIM	153620
UniProt ID	P14174
Chromosome Location	22q11.23
Pathway	Adipogenesis; Phenylalanine metabolism; Tyrosine metabolism
Function	cytokine activity; dopachrome isomerase activity; phenylpyruvate tautomerase activity; protein binding

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