

Active Recombinant Human MIF Protein

Cat. No. MIF-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MIF Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	123 amino acids
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.
Bio-activity	Fully biologically active measured by its ability to bind rhCD74 in a functional ELISA.
Molecular Mass	Approximately 13.5 kDa, a single non-glycosylated polypeptide chain containing 123 amino acids.
AA Sequence	MPMFIVNTNVPRASVPDGFSELTTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEP CALCSLHSGIKIGGAQNRSYSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNST FALE

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Endotoxin	Less than 1 EU/mg of rHuMIF as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 or -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	MIF macrophage migration inhibitory factor [Homo sapiens (human)]
Official Symbol	MIF
Synonyms	MIF; macrophage migration inhibitory factor; macrophage migration inhibitory factor; L-dopachrome isomerase; L-dopachrome tautomerase; epididymis secretory sperm binding protein; macrophage migration inhibitory factor (glycosylation-inhibiting factor); phenylpyruvate tautomerase; EC 5.3.2.1; EC 5.3.3.12
Gene ID	4282

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mRNA Refseq	NM_002415
Protein Refseq	NP_002406
MIM	153620
UniProt ID	P14174

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