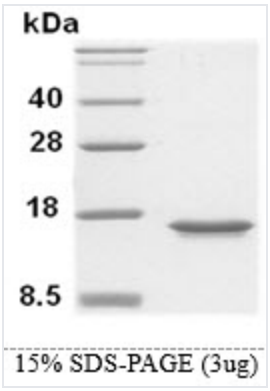
MIF Recombinant Protein

PRODUCT OVERVIEW

Product Name	MIF, Recombinant Protein
Full Product Name	MIF, 1-115aa, Human, His tag, E Coli
Product Gene Name	MIF recombinant protein
Product Synonym Names	Macrophage migration inhibitory factor; Macrophage migration inhibitory factor; GLIF; MMIF; MIF (1-114aa); MIF; EC 5.3.2.1; Phenylpyruvate tautomerase; Glycosylation-inhibiting factor; GIF; Macrophage migration inhibitory factor Glycosylation inhibiting factor; MIF protein
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSPEFA MPMFIVNTNV PRASVPDGFL SELTQQLAQA TGKPPQYIAV HVVPDQLMAF GGSSEPCALC SLHSIGKIGG AQNRSYSKLL CGLLAERLRI SPDRVYINYY DMNAANVGWN NSTFA
Host	E Coli
Form/Format	In phosphate-buffered saline (PBS), pH 7.4
Purity/Purification	> 95% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	17 kDa (155 aa), confirmed by MALDI-TOF
OMIM	M25639 mRNA
3D Structure	ModBase 3D Structure for P14174
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Product Categories/Family for MIF recombinant protein	Hormones & Cytokines
Applications Tested/Suitable for MIF recombinant protein	SDS-PAGE
Related Product Information for MIF recombinant protein	The cytokine Macrophage migration inhibitory factor (MIF) has been identified to be secreted by the pituitary gland and the monocyte/macrophage and to play an important role in endotoxic shock. MIF has the unique property of being released from macrophages and T cells in response to physiological concentrations of glucocorticoids. The secretion of MIF is tightly regulated and decreases at high, anti-inflammatory steroid concentration. Recombinant human MIF, fused to His-tag at N-terminus, was cloned into an E. coli expression vector and was purified to apparent homogeneity by using conventional column chromatography techniques.
Product References and Citations for MIF recombinant protein	Weiser WY., et al (1989) Proc Natl Acad Sci. 86: 7522-26.; Bernhagen J., et al (1994) Biochemistry. 33: 14144-55.; Bucala R., et al. (1996) FASEB J 10: 1607-13.;
Other Notes	Small volumes of MIF recombinant protein 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	MBS203084 is a recombinant protein targeting MIF. Also known as MIF, 1-115aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of MIF recombinant protein

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
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
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
NCBI Protein Information	macrophage migration inhibitory factor
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	Pro-inflammatory cytokine. Involved in the innate immune response to bacterial pathogens. The expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense. Counteracts the anti-inflammatory activity of glucocorticoids. Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological substrate is not known. It is not clear whether the tautomerase activity has any physiological relevance, and whether it is important for cytokine activity.
Research Articles on MIF	**1.** The assay monitors the increase in absorbance at 320 nm resulting from keto-to-enol tautomerization of 4-hydroxyphenylpyruvate, a reaction catalyzed by MIF. We ran a full-diversity screen evaluating the inhibitory activity of 1.6 million compounds.

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