

Recombinant Human MIF, His-tagged

Cat. No. MIF-81H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human MIF, fused to GST-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Species Human

Source E.coli

Description MIF also known as 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.

Form Liquid. In Phosphate Buffered Saline(pH7.4) containing 10% glycerol

Molecular Mass 39.2kDa (345aa) confirmed by MALDI-TOF

AA Sequence

MSPILGYWKI KGLVQPTRLLEYLEEKYEE HLYERDEGDK WRNKKFELGL
 EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL
 DIRYGVSR IAYSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
 PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA
 WPLQGWWQATF GGGDHPPKSD LVPRGSPEFA MPMFIVNTNV PRASVPDGFL
 SELTQQLAQA TGKPPQYIAV HVVPDQLMAF GGSSEPCALC SLHSIGKIGG
 AQNRSYSKLL CGLLAERLRI SPDRVYINYY DMNAANVGWN NSTFA

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Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	MIF macrophage migration inhibitory factor (glycosylation-inhibiting factor) [Homo sapiens]
Official Symbol	MIF
Synonyms	MIF; macrophage migration inhibitory factor (glycosylation-inhibiting factor); GLIF; macrophage migration inhibitory factor; GIF; L-dopachrome isomerase; L-dopachrome tautomerase; phenylpyruvate tautomerase; MMIF;
Gene ID	4282
mRNA Refseq	NM_002415
Protein Refseq	NP_002406
MIM	153620
UniProt ID	P14174
Chromosome Location	22q11.23
Pathway	Adipogenesis, organism-specific biosystem; Phenylalanine metabolism, organism-

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specific biosystem; Phenylalanine metabolism, conserved biosystem; Tyrosine metabolism, organism-specific biosystem; Tyrosine metabolism, conserved biosystem;

Function

cell surface binding; chemoattractant activity; cytokine activity; cytokine receptor binding; dopachrome isomerase activity; isomerase activity; phenylpyruvate tautomerase activity; protein binding; receptor binding;

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