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## Recombinant human MIF protein

Catalog Number: MIF0501

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-115aa

#### UniProt No.

P14174

#### **NCBI Accession No.**

NP 002406.1

#### **Alternative 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,

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

17 kDa (155aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4)

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

## **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

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



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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.

## **Amino acid Sequence**

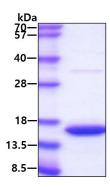
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSPEFA> MPMFIVNTNV PRASVPDGFL SELTQQLAQA TGKPPQYIAV HVVPDQLMAF GGSSEPCALC SLHSIGKIGG AQNRSYSKLL CGLLAERLRI SPDRVYINYY DMNAANVGWN NSTFA

#### **General References**

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.

### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

