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

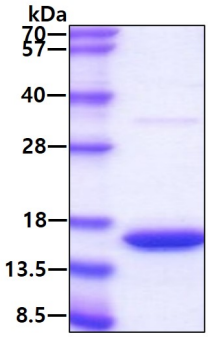
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSPEFA> MPMFIVNTNV PRASVPDGFL SELTQQLAQA TGKPPQYIAV HVVPDQLMAF GGSSEPCALC SLHSIGKIGG AQNRSYSKLL CGLLAERLRI SPDRVYINYY DMNAANVGWN NSTFA

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.