



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Product Catalog No. 230-00007

Recombinant Human Migration Inhibitory Factor (MIF)

Synonyms

MIF, macrophage migration inhibitory factor (glycosylation-inhibiting factor); MMIF; GLIF; glycosyl-ation inhibiting factor; phenylpyruvate tautomerase.

Description

Macrophage migration inhibitory factor (MIF) is known as a mediator of cellular immunity with specific effects on the differentiation of mononuclear phagocytes. The expression of MIF activity correlates well with delayed hypersensitivity and cellular immunity in humans and MIF is now recognized as a principal cytokine modulating T-cell/macrophage interactions in the expression of delayed hypersensitivity and acquired cellular immunity. MIF activity can be detected in the synovia of patients with rheumatoid arthritis.

Source

- Recombinant protein, purified from *Escherichia coli*.
- Protein accession No. AAH00447 (Pro2-Ala115).

Preparation

The gene encoding the full length of human MIF protein was cloned and expressed in *E. coli*. The recombinant MIF protein was purified by proprietary chromatographic techniques.

Predicted Molecular Mass

~ 13 kDa.

Concentration

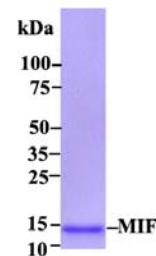
Lot specific (see label on the vial).

Formulation

Liquid, clear solution. Supplied as a 0.2 μ m filtered solution of phosphate-buffered saline (PBS) containing 30% glycerol.

Purity

>95%, determined by SDS-PAGE and stained with Coomassie blue. (See image below).



Stability & Storage

Upon arrival, the protein should be stored at 4 °C for one week. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA) and store at -20 or -80 °C. **Please avoid repeated freeze-thaw cycles.**

References

1. Remold HG, Mednis AD. (1985) Migration inhibitory factor. *Methods in Enzymology* 116: 379-394.
2. Blocki FA, et al. (1993) MIF proteins are theta-class glutathione S-transferase homologues. *Protein Sci.* 2: 2095-2102.
3. Oki S, et al. (1991) Macrophage migration inhibitory factor (MIF) produced by a human T cell hybridoma clone. *Lymphokine Cytokine Research* 10: 273- 280.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
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