

# Human MIF Recombinant Protein



RPPB0760

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## Product Information    Protein Information

**Product SKU:**

RPPB0760

**Accession:**

P14174

**Host:**

Escherichia Coli.

**Protein description:**

MIF human Recombinant was cloned into an E.coli expression vector and was purified to apparent homogeneity by using conventional column chromatography techniques. Macrophage Inducing Factor Human Recombinant is a single, non-glycosylated, polypeptide chain containing 115 amino acids and having a molecular mass of 12.5 kDa.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Phenylpyruvate tautomerase, Glycosylation-inhibiting factor, GIF, MMIF, MIF.

**Formulation:**

MIF-Protein was lyophilized from 10mM sodium phosphate buffer pH-7.5.

**Purity:**

Greater than 97.0% as determined by:(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized MIF-Protein in sterile 18MΩ-cm H<sub>2</sub>O at a concentration between 0.1mg-1mg per 1ml.

**Stability:**

Lyophilized MIF-protein although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MIF-protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

MPMFIVNTNVPRAVDPDGLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSGKIGGAQNRS  
YSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA.

**Biological Activity:**

Human PBMCs were cultured with 0 to 1000ng/ml Human MIF. Production of IL-8 was measured via ELISA after 24 hours. The ED<sub>50</sub> which was found to be 88-132ng/ml.