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**Macrophage Migration Inhibitory Factor Human Recombinant, His Tag C-Terminus  
GROWTH FACTOR**

**Catalog Number:** PRP-521  
**Quantity:** 5 micrograms, 25 micrograms, 1 milligram  
**Format:** Sterile-filtered lyophilized powder  
**Host:** *E. coli*

**Background:**

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 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.

**Specificity and Preparation:**

Macrophage Inducing Factor Human Recombinant is a single, non-glycosylated, polypeptide chain containing 123 amino acid sand having a molecular mass of 13.5 kDa. MIF human Recombinant, fused to His-tag at C-terminus, was cloned into an *E. coli* expression vector and was purified to apparent homogeneity by using conventional column chromatography techniques. Human MIF was lyophilized from a 1mg/ml solution containing PBS pH-7.4. Purity is greater than 95.0% as determined by RP-HPLC and SDS-PAGE. Biological Activity was measured by its ability to bind rhCD74 in a functional ELISA.

**Amino Acid Sequence:**

MPMFIVNTNVPRASVPDGFLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPALCSLHSIGKIG  
GAQNRSYSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFALEHHHHHH

**Usage and Storage:**

It is recommended to reconstitute the material in sterile 18MΩ-cm H<sub>2</sub>O at not less than 100 μg/ml, which can then be further diluted to other aqueous solutions. Although stable at room temperature for 3 weeks, material should be stored desiccated below -18°C. Upon reconstitution material 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). Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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