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# 32-1597: MIF (Active) Recombinant Protein

**Alternative Name :** Phenylpyruvate tautomerase,Glycosylation-inhibiting factor,GIF,MMIF,MIF.

## Description

Source : Escherichia Coli. 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. 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.

## Product Info

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| **Amount :** | 25 µg |
| **Purification :** | Greater than 97.0% as determined by:(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. |
| **Content :** | MIF-Protein was lyophilized from 10mM sodium phosphate buffer pH-7.5. |
| **Storage condition :** | 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 :** | MPMFIVNTNVPRASVPDGFLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNR SYSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA. |

## Application Note

It is recommended to reconstitute the lyophilized MIF-Protein in sterile 18MΩ-cm H2O at a concentration between 0.1mg-1mg per 1ml. Human PBMCs were cultured with 0 to 1000ng/ml Human MIF. Production of IL-8 was measured via ELISA after 24 hours. The ED50 which was found to be 88-132ng/ml.