

Product Data Sheet

Product Name: MIF Human, Active
 Cat. No.: GP20742
 Batch No.: 1

Product Data

Purity >98% Source Escherichia Coli.
 Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms Phenylpyruvate tautomerase; Glycosylation-inhibiting factor; GIF; MMIF; MIF.

Amino Acid Sequence MPMFIVNTNVPRASVPDGFSELSTQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSGKIGGAQNRYSKLLCGLLAERLRISPDRVYINYYD

Solubility It is recommended to reconstitute the lyophilized MIF-Protein in sterile 18MΩ-cm H₂O at a concentration between 0.1mg-1mg per 1
 Formulation MIF-Protein was lyophilized from 10mM sodium phosphate buffer pH-7.5.

Introduction

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.

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 ED₅₀ which was found to be 88-132ng/ml.

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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