

MIF Human, Active

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.

Catalog #: CYP5-603

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:

MPMFIVNTNVPRASVDPDGLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSI
GKIGGAQNRSYSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA.

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

Formulation:

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

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized MIF-Protein in sterile 18M-cm H₂O at a concentration between 0.1mg-1mg per 1ml.

Introduction:

The cytokine Macrophage Migration Inhibitor (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.

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