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MIF Human, Active

Macrophage Migration Inhibitory Factor Human Recombinant (Active)
GRF0265

Product Overview

Name	MIF Human, Active

Description

Macrophage Migration Inhibitory Factor Human Recombinant (Active)

Accession (Primary)	P14174

Synonyms

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

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

Purity

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

Amino acid sequence

MPMFIVNTNVPRASVPDGFLSELTQQLAQATGKPPQYIAVHVVPDQLM AFGGSSEPCALCSLHSIGKIGGAQNRSYSKLLCGLLAERLRISPDRVY INYYDMNAANVGWNNSTFA.

Biological Activity

Human PBMCs were cultured with 0 to 1000ng/ml Human MIF. Production of IL-8 was measured via ELISA after 24

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

Solubility

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

Precautions

MIF Human, Active is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P14174)