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Product Datasheet

Product Name	Macrophage Migration Inhibitory Factor Human Recombinant, His Tag C-Terminus
Cata No	CB500423
Source	*Escherichia Coli.*
Synonyms	Phenylpyruvate tautomerase, Glycosylation-inhibiting factor, GIF, MMIF, MIF.

Description

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.
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.
Macrophage Inducing Factor Human Recombinant is a single, non-glycosylated, polypeptide chaincontaining 123 amino acidsand having a molecular mass of 13.5 kDa.

Physical Appearance

Sterile Filtered lyophilized powder.

Biological Activity

Measured by its ability to bind rhCD74 in a functional ELISA.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

Human MIF was lyophilized from a 1mg/ml solution containing PBS pH-7.4.

Stability

Lyophilized MIF although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution MIF should be stored at 4℃ between 2-7 days and for future use below
-18℃.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

Sequence

MPMFIVNTNVPRASVPDGFLSELTQQLAQATGKP
PQYIAVHVVPDQLMAFGGS
SEPALCSLHSIGKIGGAQNRSYSKLLCGLLAERLRI
SPDRVYINYYDMNAANVG
WNNSTFA**LEHHHHHH**

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