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## Product Data Sheet

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Product Name: MIF Human His C  
Cat. No.: GP20744  
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 MPMFIVNTNVPRASVPDGFSELSTQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSGIKIGGAQNRYSKLLCGLLAERLRISPDRVYINYYD  
Solubility It is recommended to reconstitute the lyophilized MIF in sterile 18MΩ-cm H<sub>2</sub>O not less than 100μg/ml, which can then be further diluted in solutions.  
Formulation Human MIF was lyophilized from a 1mg/ml solution containing PBS pH-7.4.

### 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

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

### Stability

Lyophilized MIF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MIF 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, 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 chain containing 123 amino acids and having a molecular mass of 13.5 kDa.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA