

**Recombinant Human MIF**  
**Catalog # PBG10301****Specification**

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**Recombinant Human MIF - Product Information****Recombinant Human MIF - Additional Information****Description**

Macrophage Migration Inhibitory Factor (MIF) is a small secreted protein that can act as a pleiotropic pro-inflammatory cytokine as well as an enzyme. MIF pro-inflammatory activity can be initiated by signaling through CD74 and CD44, resulting in the secretion of TNF- $\alpha$ , IL-1, IL-6, IL-8, and various MMPs. The enzymatic activity of MIF is characterized by its ability to act as a tautomerase, capable of catalyzing the keto to enol isomerization of keto-phenylpyruvate and L-dopachrome. It appears as though MIF catalytic activity is dependent upon a trimeric configuration and a free N-terminal proline residue. Insect cell derived recombinant MIF is a 15 kDa protein containing 124 amino acid residues, including an N-terminal His-tag.

**Biological Activity**

Determined by its ability to inhibit monocyte migration.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/  $\mu$ g of protein (<1EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

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

**Recombinant Human MIF - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

## **Recombinant Human MIF - Images**