

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant MIF, Mouse

Catalog Number: BK0134-1mg

Source: Escherichia coli.

Quantity: 1mg

### Description:

Macrophage Migration Inhibitory Factor (MIF) is a pleiotropic cytokine, existing as a homotrimer in vivo. MIF was originally identified as a T cell derived factor responsible for the inhibition of macrophage migration. However, recently MIF has received much more attention because of its possible roles in angiogenesis and cancer development. MIF is over-expressed in various cancers, including pancreatic, breast, colon, brain, prostate, skin, and lung. The intratumoral expression MIF is strongly correlated with angiogenic growth factor expression, such as the expression of Interleukin 8 (IL-8) and Vascular Endothelial Growth Factor (VEGF), and with risk of recurrence after resection. Recombinant mouse Macrophage Migration Inhibitory Factor (rmMIF) produced in E.coli is a single non-glycosylated polypeptide chain containing 115 amino acids. rmMIF has a molecular mass of 12.5 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

### Molecular Weight:

12.5 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

### Biological Activity:

Bioassay data are not available.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

MPMFIVNT-  
NVPRASVPEGFLSELTQQLAQATGKPAQY-  
IAVHVVPDQLMTFSGTNDPCALCSLHSIGKIG-  
GAQNRNYSKLLCGLLSDRLHIS-  
PDRVYINYYDMNAANVGWNGSTFA

### Endotoxin:

< 0.2 EU/μg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O at 100 μg/mL.

### Storage:

Lyophilized recombinant mouse Macrophage Migration Inhibitory Factor (rmMIF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmMIF remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

### Usage:

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