

## MIF, Mouse

**Cat. No.:** Z03160-10

**Size:** 10.0 ug

**Synonyms:** Macrophage Migration, Inhibitory Factor, GLIF, MMIF, GIF, Glycosylation-inhibiting factor

### 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.

### Amino Acid Sequence:

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00001 MPMFIVNTNV PRASVPEGFL SELTQQLAQA TGKPAQYIAV
00041 HVVPDQLMTF SGTNDPCALC SLHSIGKIGG AQRNYSKLL
00081 CGLLSDRLHI SPDRVYINY DMNAANVGWN GSTFA
```

**Source:** *E. coli*

**Species:** Mouse

**Biological Activity:** Bioassay data are not available.

**Molecular Weight:** 12.5 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

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

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

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant mouse Macrophage Migration Inhibitory Factor (rmMIF) remains stable up to 6 months at lower than -70°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.