

**TECHNICAL DATA SHEET**

# Recombinant Human MIF (Carrier-free)

Catalog Number: 21-8500

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

**CONTENTS**

Recombinant Human MIF (Carrier-free)

**DESCRIPTION**

MIF (or macrophage migration inhibitory factor) is a small secreted protein that has both cytokine (as an inflammatory mediator) and enzyme (tautomerase activity) properties. MIF induces inflammatory cytokines, nitric oxide and superoxide anions, and regulates macrophage and lymphocyte proliferation, apparently signaling through CD74 and CD44. MIF is widely expressed in a variety of tissues and many cell lines.

**MOLECULAR MASS**

Insect cell derived recombinant MIF is a 15 kDa protein containing 124 amino acid residues, including an N-terminal His-tag.

**AMINO ACID SEQUENCE**

HHHHHHHHAM PMFIVNTNVP RASVPDGFLS ELTQQLAQAT GKPPQYIAVH VVPDQLMAFG GSSEPCALCS LHSIGKIGGA  
QNRYSKLLC GLLAERLRIS PDRVYINYYD MNAANVGWNN STFA

**SOURCE**

Hi-5 Insect cells

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE

**ENDOTOXIN LEVEL**

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

**AUTHENTICITY**

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

**CROSS REACTIVITY**

**BIOACTIVITY**

Determined by its ability to inhibit monocyte migration.

**RESEARCH AREAS**

Chemotaxis; Inflammation

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Bernhagen J, Mitchell RA, Calandra T, Voelter W, Cerami A and Bucala R. 1994. 33(47): 14144-14155. Calandra T, Bernhagen J, Metz CN, Spiegel LA, Bacher M, Donnelly T, Cerami A and Bucala R. 1995. Nature. 377(6544): 68-71. Stamps SL, Taylor AB, Wang SC, Hackert ML and Whitman CP. 2000. 39 (32): 9671-9678. Leng L, Metz CN, Fang Y, Xu J, Donnelly S, Baugh J, Delohery T, Chen Y, Mitchell RA and Bucala R. 2003. J Exp Med. 197(11): 1467-1476. Meyer-Siegler KL and Vera PL. 2005. J Urol. 173(2): 615-620.

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