

## MIF Protein, Human (N-His)

<b>Cat. No.:</b>	HY-P70288A
<b>Synonyms:</b>	rHuMacrophage migration inhibitory factor/MIF, His; Macrophage migration inhibitory factor; MIF; MMIF; Glycosylation-inhibiting factor; GLIF; L-dopachrome tautomerase; Phenylpyruvate tautomerase
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P14174 (M1-A115)
<b>Gene ID:</b>	4282
<b>Molecular Weight:</b>	approximately 11.67 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>M P M F I V N T N V    P R A S V P D G F L    S E L T Q Q L A Q A    T G K P P Q Y I A V</p> <p>H V V P D Q L M A F    G G S S E P C A L C    S L H S I G K I G G    A Q N R S Y S K L L</p> <p>C G L L A E R L R I    S P D R V Y I N Y Y    D M N A A N V G W N    N S T F A</p>
<b>Biological Activity</b>	Measured by its ability to inhibit THP-1 human acute monocyte migration. The ED <sub>50</sub> this effect is 9.720 ng/mL, corresponding to a specific activity is 102880.658 U/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	MIF Protein is a pro-inflammatory cytokine that plays a crucial role in the innate immune response against bacterial pathogens. Its expression at sites of inflammation suggests its involvement in regulating macrophage function in host defense. MIF counteracts the anti-inflammatory effects of glucocorticoids. Although MIF has phenylpyruvate tautomerase and dopachrome tautomerase activity in vitro, the physiological substrate of MIF is still unknown. It remains unclear whether the tautomerase activity is relevant to its cytokine activity.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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