

MIF Protein, Human (N-His)

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

PROPERTIES

AA Sequence	<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>
Biological Activity	Measured by its ability to inhibit THP-1 human acute monocyte migration. The ED ₅₀ this effect is 2.318 ng/mL, corresponding to a specific activity is 4.314×10 ⁵ U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA