

Animal-Free MIF Protein, Mouse (His)

Cat. No.:	HY-P70341AF
Synonyms:	rMuMacrophage migration inhibitory factor/MIF, His; Macrophage migration inhibitory factor; Delayed early response protein 6; DER6; Glycosylation-inhibiting factor; GIF; L-dopachrome isomerase; L-dopachrome tautomerase; Phenylpyruvate tautomerase;
Species:	Mouse
Source:	E. coli
Accession:	P34884 (M1-A115)
Gene ID:	17319
Molecular Weight:	Approximately 13.31 kDa

PROPERTIES

AA Sequence	M P M F I V N T N V P R A S V P E G F L S E L T Q Q L A Q A T G K P A Q Y I A V H V V P D Q L M T F S G T N D P C A L C S L H S I G K I G G A Q N R N Y S K L L C G L L S D R L H I S P D R V Y I N Y Y D M N A A N V G W N G S T F A
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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, a pro-inflammatory cytokine, plays a crucial role in the innate immune response to bacterial pathogens. Its expression at inflammatory sites suggests its involvement as a mediator in regulating macrophage function during host defense. Notably, MIF counters the anti-inflammatory activity of glucocorticoids. While it exhibits phenylpyruvate tautomerase and dopachrome tautomerase activities in vitro, the physiological substrate remains unknown. The significance of its tautomerase activity and its relevance to cytokine function remain unclear.
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Caution: Product has not been fully validated for medical applications. For research use only.

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