MIF Protein, Mouse (P. pastoris, His)

Cat. No.:	HY-P700517
Synonyms:	MIF; macrophage migration inhibitory factor; GIF; GLIF; MMIF; phenylpyruvate tautomerase; glycosylation-inhibiting factor; EC 5.3.2.1; Glycosylation-inhibiting factor; Phenylpyruvate tautomerase
Species:	Mouse
Source:	P. pastoris
Accession:	P34884 (P2-A115)
Gene ID:	17319
Molecular Weight:	13.9 kDa

PROPERTIES

AA Sequence	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 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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.

Caution: Product has not been fully validated for medical applications. For research use only.

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