

Recombinant Mouse Macrophage migration inhibitory factor/MIF Protein

RPCB1105

Product Information

Product SKU:	RPCB1105	Gene ID:	17319	Size:	10µg
Tag:	NO-Tag	Reactivity:	Mouse		

Additional Information

Expression Host:	E. coli	Swissprot:	P34884
Purity:	> 95% by SDS-PAGE.		

Protein Information

Background: MIF (or macrophage migration inhibitory factor) was the first lymphokine/cytokine to be recognized in the pregenomics era (1, 2). Regardless, it is one of the least understood of all inflammatory mediators (1, 3). Human MIF is a 12.5 kDa, 115 amino acid (aa) nonglycosylated polypeptide that is synthesized without a signal sequence (4 - 7). Secretion occurs nonclassically via an ABCA1 transporter (8). The initiating Met is removed, leaving Pro as the first amino acid. The molecule consists of two alpha - helices and six beta -strands, four of which form a beta -sheet. The two remaining beta -strands interact with other MIF molecules, creating a trimer (2, 9, 10). Structure-function studies suggest MIF is bifunctional with segregated topology. The N- and C-termini mediate enzyme activity (in theory). Phenylpyruvate tautomerase activity (enol-to-keto) has been demonstrated and is dependent upon Pro at position #1 (11). Amino acids 50 - 65 have also been suggested to contain thiol-protein oxidoreductase activity (12).

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Mouse Macrophage migration inhibitory factor/MIF Protein , tested reactivity in E. coli and has been validated in SDS-PAGE. 100% guaranteed.

Endotoxin: < 0.1 EU/µg

Formulation: Lyophilized from a 0.22 µm filtered solution of 50mM Tris 150mM NaCl pH8.0.

Storage:

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.