Recombinant Human Macrophage migration inhibitory factor/MIF Protein

Catalog No.: RP02895

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Sequence Information

Species
Human

Gene ID
4282

Swiss Prot
P14174

Tags
N-His

Synonyms
GIF, GLIF, MMIF,MIF,GLIF,MMIF

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
13.32 kDa

Observed MW
15 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM PB,150mM NaCl, pH7.4/20mM PB,150mM NaCl,pH7.4,50% glycerol

Reconstitution
opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles

Background

MIF (or macrophage migration inhibitory factor) was the first lymphokine /cytokine to be recognized in the pregenomics era . Regardless, it is one of the least understood of all inflammatory mediators . Secretion occurs nonclassically via an ABCA1 transporter. 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 . 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. Amino acids 50 - 65 have also been suggested to contain thiol-protein oxidoreductase activity.

Basic Information

Description
Recombinant human Macrophage migration inhibitory factor/MIF Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Ala115) of human Macrophage migration inhibitory factor /MIF (Accession #NP_002406.1) fused with a 6×His tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

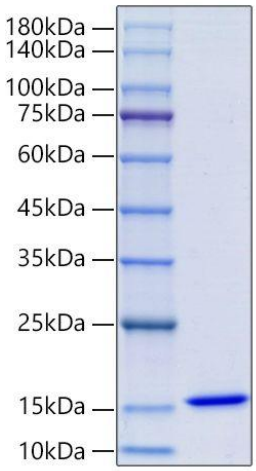
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human Macrophage migration inhibitory factor/MIF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.