

RP02895

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Recombinant Human Macrophage migration inhibitory factor/MIF Protein

Catalog No.: RP02895

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
<i>E. coli</i>	4282	P14174

Tags

N-His

Synonyms

GIF; GLIF; MMIF; MIF; GLIF; MMIF

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 α -helices and six β -strands, four of which form a β -sheet. The two remaining β -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.

Product Information

Source

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles

Purification

$\geq 95\%$ as determined by SDS-PAGE.

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 $\times$ His tag at the N-terminus.

Bio-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.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4/20mM PB, 150mM NaCl, pH 7.4, 50% glycerol

Reconstitution

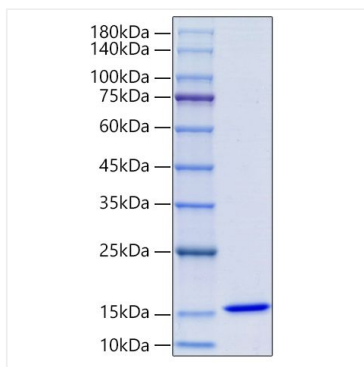
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Contact



www.abclonal.com

Validation Data



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