



Recombinant Human MIF
(Migration Inhibitory Factor)

Catalog Number: 100-153

Accession Number: AAA36315

Specifications and Uses:

Alternate Names: None

Description:

Migration Inhibitory Factor (MIF) is a pro-inflammatory cytokine that acts on fibroblasts by inducing IL-1, IL-8 and MMP expression. MIF stimulates NO production and TNF- α release following IFN γ -activation of macrophages. Recombinant human MIF is a non-glycosylated protein, containing 115 amino acids, with a molecular weight of 12.5 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human MIF is lyophilized from 10 mM Na₂PO₄, pH 7.5.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically $\geq 97\%$) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.

Biological Activity:

The activity was measured in an agarose microdroplet assay using human U937 and production of IL-8 by human PBMCs.

AA Sequence:

MPMFIVNTNV PRASVPDGFL SELTQQLAQA TGKPPQYIAV HVVPDQLMAF GGSSEPCALC SLHSIGKIGG
AQNRSYSKLL CGLLAERLRI SPDRVYINY Y DMNAANVGWN NSTFA

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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