Mouse Macrophage Migration Inhibitory Factor, Animal-Free

SIZE	CAT. NO.
25 µg	RP2078AF-25
100 µg	RP2078AF-100
1000 µg	RP2078AF-1000

BACKGROUND:

Macrophage migration inhibitory factor (MIF) is a pro-inflammatory lymphokine that functions during cell-mediated immmunity. MIF promotes fibroblast migration by inducing interleukin 1 (IL-1), interleukin 8 (IL-8), and matrix metalloproteinase (MMP) expression. In interferon-gamma-activated macrophages, MIF stimulates nitric oxide (NO) production and tumor necrosis factor alpha (TNFα) secretion.

Recombinant Mouse Macrophage migration inhibitory factor XYZ is a non-glycosylated protein monomer, containing 115 amino acids and having a molecular mass of 12.5 kDa.

Cat. No.:
RP2078

AA Sequence:

MPMFIVNTNV PRASVPEGFL SELTQQLAQA
TGKPAQYIAV HVVPDQLMTF SGTNDPCALC
SLHSIGKIGG AQNRNYSKLL CGLLSDRLHI
SPDRVYINYY DMNAANVGWN GSTFA

TECHNICAL INFO

Source:
E. coli

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

Formulation:
10 mM sodium phosphate, pH 7.5

Stability:
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 0.1 mg/mL, which can be further diluted into other aqueous solutions. The product works best when used fresh after reconstitution.

Protein Content and Purity determined by:
- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Animal Component-Free
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.