For Research Use Only

Recombinant Human MIF protein (rFc Tag)

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Catalog Number: Eg4501

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human MIF protein Pro2-Ala115 (Accession# P14174) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
4282

Accession:
P14174

Predicted Molecular Mass:
38.6 kDa

SDS-PAGE:
40-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Macrophage migration inhibitory factor (MIF) is a homo-trimeric protein that acts as a pleiotropic pro-inflammatory cytokine. It contributes to the pathogenesis of many autoimmune diseases through its upstream immunoregulatory function and its polymorphic genetic locus. It is involved in multiple functions including leukocyte recruitment, inflammation, immune responses, cell proliferation, tumourigenesis and glucocorticoid (GC) counterregulation.

References

1.Lue H. et al. (2002) Microbes Infect. 4(4):449-60.
2.Martin J. et al. (2009) FASEB J. 23(3):720-30.
3.Bucala, R. (1996) FASEB J. 10(14):1607-13.
4.Gore Y. et al. (2008) J Biol Chem. 283(5):2784-92.

Synonyms

EC:5.3.2.1, EC:5.3.3.12, Glycosylation-inhibiting factor, L-dopachrome isomerase, L-dopachrome tautomerase

For technical support and original validation data for this product please contact

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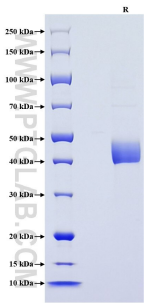
Selected Validation Data



Purity of Recombinant Human MIF was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.