

Recombinant Mouse MIF protein (His Tag)

Catalog Number: Eg0574

Basic Information

Species:
Mouse**Purity:**
>85 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>85 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse MIF protein Pro2-Ala115 (Accession# P34884) with a His tag at the C-terminus.

GeneID:

17319

Accession:

P34884

Predicted Molecular Mass:

13.2 kDa

SDS-PAGE:

16-20 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 an upstream regulator of the innate and adaptive immune response that is widely expressed and that exhibits chemokine-like activities. MIF play a role in the pathogenesis of inflammatory diseases, such as atherosclerosis, rheumatoid arthritis, sepsis, asthma, and acute respiratory distress syndrome. MIF is expressed by the ischemic myocardium and that it may exhibit an overall cardioprotective role during I/R injury. MIF regulates inflammatory processes by recruiting immune cells, amplifying cytokine production, inhibiting apoptosis and counter-regulating the immunosuppressive action of glucocorticoids.

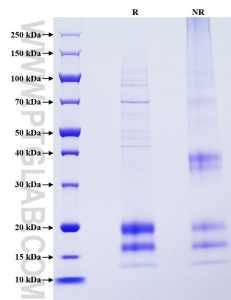
References

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2. Koga K. et al.(2011). Antioxid Redox Signal. 14(7):1191-202.
3. Qi D. et al.(2009). J Clin Invest. 119(12):3807-16.
4. Stoppe C. et al.(2012). Mol Med.18:843-50.
5. Rajasekaran D. et al.(2014). 28(11):4961-71.
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Synonyms

MIF, GIF

Selected Validation Data



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