

Recombinant Mouse Myeloperoxidase protein (His Tag)

Catalog Number: Eg0702

Basic Information

Species:
Mouse**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<1.0 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse Myeloperoxidase protein Met16-Thr718(Accession# AAR99349) with a His tag at the C-terminus.

GeneID:

17523

Accession:

AAR99349

Predicted Molecular Mass:

84 kDa

SDS-PAGE:**Formulation:**

Lyophilized from sterile 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

Myeloperoxidase (MPO) is a heme-containing enzyme primarily found in neutrophils and certain monocytes, playing a crucial role in the innate immune system. MPO generates reactive oxygen species (ROS), such as hypochlorous acid, which are essential for killing pathogens during phagocytosis. Additionally, MPO is a key component of neutrophil extracellular traps (NETs), which capture and kill extracellular pathogens. However, MPO can also contribute to tissue damage and inflammation when released from activated neutrophils. Elevated MPO levels have been associated with various diseases, including cardiovascular diseases and neurodegenerative disorders like Alzheimer's disease.

References

1. Wright, Joy R et al. Journal of Alzheimer's disease : JAD vol. 89,4 (2022): 1483-1492.

2. A

Synonyms

EC:1.11.2.2, MPO, Myeloperoxidase heavy chain, Myeloperoxidase light chain

Selected Validation Data

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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