

For Research Use Only

Recombinant Mouse Ferritin heavy chain/FTH1 protein (rFc Tag)



Catalog Number: Eg4765

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse Ferritin heavy chain protein Met1-Ser182 (Accession# P09528) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

14319

Accession:

P09528

Predicted Molecular Mass:

47.3 kDa

SDS-PAGE:

50-60 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m 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

Ferritin heavy chain (FTH1, ferritin, heavy polypeptide 1), as a 21 kDa subunit of the ferritin complex, exhibits ferroxidase activity, which serves an essential role in catalyzing the conversion of the ferrous ions (Fe²⁺) to the ferric form (Fe³⁺). FTH1 regulates angiogenesis during inflammation and malignancy by binding to high molecular weight kininogen (HK) and blocking its anti-angiogenic activity on endothelial cells in vitro and in vivo. FTH1 has been shown to protect proximal tube epithelial cells and kidneys against the activity of free iron in reactive oxygen species generation. FTH1 plays an important role in the maintenance of the cellular iron balance in ferroptosis.

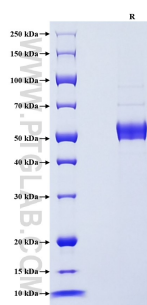
References

1. Mimi C Sammarco, et al. (2008). J Biol Chem. 283(8):4578-87.
2. Maddalena Di Sanzo, et al. (2020). Cells. 9(12):2554.

Synonyms

EC:1.16.3.1, Ferritin H subunit, Ferritin heavy chain, Ferritin heavy chain, N-terminally processed, Fth

Selected Validation Data



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

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

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