Recombinant Human Ferritin heavy chain/FTH1 Protein

Catalog No.: RP00631

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Sequence Information

Species
Human

Gene ID
2495

Swiss Prot
P02794

Tags
No tag

Synonyms
FHC,FTH,FTHL6,HFE5,PIG15,PLIF, Ferritin,FTH1

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
21.22 kDa

Observed MW
20-25 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Ferritin heavy polypeptide 1(FTH1), is a ubiquitous intracellular protein which stores iron in a soluble, non-toxic, readily available form. FTH1 has ferroxidase activity and is important for iron homeostasis. Iron is takenup in the ferrous form and deposited as ferric hydroxides after oxidation. Ferritin is composed of 24 subunits ofthe light and heavy ferritin chains. It plays a role in delivery of iron to cells and mediates iron uptake in capsulecells of the developing kidney. Variation of ferritin subunit composition may affect iron absorption and releasein different tissues. Deficiency of ferritin proteins may cause several neurodegenerative diseases. Almost allliving organisms can produce this protein, including algae, bacteria, higher plants, and animals.

Basic Information

Description
Recombinant Human Ferritin heavy chain/FTH1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Ser183) of human Ferritin heavy chain/FTH1 (Accession #P02794).

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

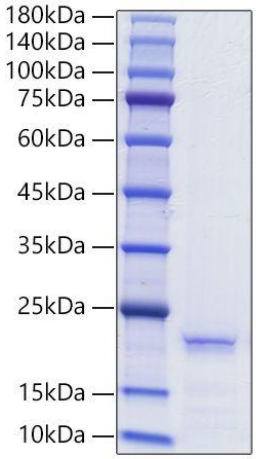
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human Ferritin heavy chain/FTH1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.