Recombinant Human FTH Protein

Catalog Number:PKSH030699

Note: Centrifuge before opening to ensure complete recovery of vial contents.

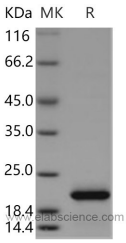
Description

Synonyms	Ferritin heavy chain;FTH1;FTH;FTHL6;Ferritin H subunit;Cell proliferation-inducing gene 15 protein;FHC;HFE5;PIG15
Species	Human
Expression Host	E.coli
Sequence	Met 1-Ser183
Accession	P02794
Calculated Molecular Weight	21.2KDa
Observed molecular weight	21.2 kDa

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.5
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

FTH1 (ferritin, heavy polypeptide 1) is the heavy subunit of ferritin which is the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin subunit composition may affect the rates of iron uptake and release in different tissues. A major function of ferritin is the storage of iron in a soluble and nontoxic state. Defects in ferritin proteins are associated with several neurodegenerative diseases. FTH1 gene has multiple pseudogenes. Several alternatively spliced transcript variants have been observed, but their biological validity has not been determined. FTH1 stores iron in a soluble, non-toxic, readily available form. It is important for iron homeostasis. It has ferroxidase activity. Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation. It also plays a role in delivery of iron to cells. FTH1 mediates iron uptake in capsule cells of the developing kidney.

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com Email: techsupport@elabscience.com