

Recombinant Human FTH1 Protein

Cat.NO.: TP07327

3th Edition

Synonyms:FHC;FTH;FTHL6;HFE5;PIG15;PLIF

Description: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.

Form:PBS

Molecular Weight:21.2KDa

Sequences:Met 1-Ser183

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.