



## Product Datasheet

<b>Product Name</b>	Ferritin Human Recombinant, Heavy Chain
<b>Cata No</b>	CB501514
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Ferritin heavy chain, Cell proliferation-inducing gene 15 protein, FTH1, FHC, FTH, PLIF, FTHL6, PIG15, MGC104426.

### Description

Ferritin is a fairly large, iron-storage heteropolymeric protein composed of 2 subunit types, light Ferritin & heavy Ferritin polypeptides, which is expressed in most kinds of cells and co-assemble in different proportion in a tissue-specific manner. Ferritin is composed of 24 self-assembled polypeptide subunits of the heavy and light ferritin chains and is characterized by the capacity to remove Fe (II) from solution in the presence of oxygen.

Ferritin light polypeptide protein is the main intracellular iron storage protein in prokaryotes and eukaryotes. Variation in ferritin subunit composition influence the rates of iron uptake and release in various tissues. A key function of ferritin is the storage of iron in a soluble and nontoxic state. Defects in this light chain ferritin gene are associated with several neurodegenerative diseases and hyper ferrit anemia-cataract syndrome. Ferritin stores iron in a soluble, nontoxic, readily accessible form. Ferritin is needed for iron homeostasis. Iron is taken up in the ferrous form and deposited as ferric hydroxides after it has been oxidized.

FTH1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 183 amino acids and having a molecular mass of 21 kDa.

### Physical Appearance

Sterile Filtered colorless solution.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Formulation

The FTH1 protein solution contains 20mM Tris-HCl pH-7.5, 1mM DTT and 10% glycerol.

### Stability

Ferritin Heavy Chain although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### Sequence

MTTASTSQVR QNYHQDSEAA INRQINLELY  
ASYVYLSMSY YFDRDDVALK NFAKYFLHQS  
HEEREHAEKL MKLQNQRGGR IFLQDIKKPD  
CDDWESGLNA MECALHLEKN VNQSLLELHK  
LATDKNDPHL CDFIETHYLN EQVKAIKELG  
DHVTNLRKMG APESGLAEYL FDKHTLGDSD  
NES.

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# California Bioscience

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83103 Avenue 48, Ste.1B #204  
Coachella, CA 92236 USA  
Phone : +1.6268339877  
Email : [info@cali-bio.com](mailto:info@cali-bio.com)

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