



## Product Datasheet

|                     |  |
|---------------------|--|
| <b>Product Name</b> | Ferritin Human Recombinant, Light Chain        |
| <b>Cata No</b>      | CB501506                                       |
| <b>Source</b>       | <i>Escherichia Coli.</i>                       |
| <b>Synonyms</b>     | Ferritin, FTL, MGC71996, Ferritin light chain. |

### 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 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 ferritin 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.

Ferritin Human Recombinant Light Chain produced in E.Coli is a single, non-glycosylated polypeptide

chain containing 175 amino acids and having a molecular mass of 20 kDa.

### Physical Appearance

Sterile Filtered solution.

### Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Stability

Ferritin Recombinant 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

MSSQIRQNYS TDVEAAVNSL VNLYLQASYT  
YLSLGFYFDR DDVALEGVSH FFRELAEEKR  
EGYERLLKMQ NQRGGRALFQ DIKKPAEDEW  
GKTPDAMKAA MALEKKNLQA LLDLHALGSA  
RTDPLCDFL ETHFLDEEVK LIKKMGDHLT  
NLHRLGGPEA GLGEYLFERL TLKHD.