

FTL

Recombinant Human Ferritin Light Chain

Catalog No.	CS575A	Quantity:	5 µg
	CS575B		25 µg
	CS575C		1 mg

Alternate Names: Ferritin light chain, Ferritin L subunit

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 heavy chain is a ferroxidase enzyme. A defect in the FTH1 gene causes hemochromatosis type 5. 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.

UniProt ID: P02792

Gene ID: 2512

Concentration: 1.0 mg/ml

Source: *E. coli*

Molecular Mass: 20 kDa (175 aa) monomer

Formulation: 20 mM Tris-HCl, pH 7.5

Purity: > 90% as determined by SDS-PAGE.

Amino Acid Sequence: MSSQIRQNYS TDVEAAVNSL VNLYLQASYT YLSLGFYFDR DDVALEGVSH
FFRELAEEKR EGYERLLKMQ NQRGGRALFQ DIKKPAEDEV GKTPDAMKAA
MALEKKLNQA LLDLHALGSA RTDPHLCDFL ETHFLDEEVK LIKKMGDHLT
NLHRLGGPEA GLGEYLFERL TLKHD.

Storage & Stability: Store at 2-8°C for use within 2 weeks. Store unopened at -20°C to -80°C for up to 1 year. It is recommended to store at -20°C to -80°C in aliquots with added carrier protein (0.1% HSA or BSA). **Avoid repeated freeze-thaw cycles.**

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