

## 32-8336: Recombinant Human Ferritin Heavy Chain/FTH (N-6His)

**Gene :** FTH1  
**Gene ID :** 2495  
**Uniprot ID :** P02794

### Description

Source: E. coli.  
MW :23.4kD.

Recombinant Human Ferritin heavy chain is produced by our E.coli expression system and the target gene encoding Met1-Ser183 is expressed with a 6His tag at the N-terminus. Ferritin heavy polypeptide 1(FTH1), is a ubiquitous intracellular protein which stores iron in a soluble, non-toxic, readily available form. FTH1 has ferroxidase activity and is important for iron homeostasis. Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation. Ferritin is composed of 24 subunits of the light and heavy ferritin chains. It plays a role in delivery of iron to cells and mediates iron uptake in capsule cells of the developing kidney. Variation of ferritin subunit composition may affect iron absorption and release in different tissues. Deficiency of ferritin proteins may cause several neurodegenerative diseases. Almost all living organisms can produce this protein, including algae, bacteria, higher plants, and animals.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.  
Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.  
**Storage condition :** Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYFFDRDDVALKNF  
AKYFLHQSHEEREHAEKLMKLNQRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKNVQSLLELHKLATDK  
NDPHLCDFIETHYLNEQVKAIKELGDHVTNLRKMGAPESGLAEYLFDKHTLGDSDNES

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.