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## **Recombinant Human FTH**

Catalog#:P00436 Derived from *E.coli* 

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			Chain is produced by our <i>E.coli</i> expression
	system and the target gene encoding Met1-Ser183 is expressed.		
DESCRIPTION	Accession#: P02794		
	Known as: Ferritin heavy chain; FTH1; FTH; FTHL6; Ferritin H subunit; Cell		
	proliferation-inducing gene 15 protein		
FORMULATION	Lyophilized from a 0.2µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.		
SHIPPING	The product is shipped at ambient temperature.		
SIIITTING	Upon receipt, store it immediately at the temperature listed below.		
	Lyophilized protein should be stored at $\leq$ -20°C, stable for one year after receipt.		
STORAGE	Reconstituted protein solution can be stored at 2-8°C for 2-7 days.		
	Aliquots of reconstituted samples are stable at $\leq$ -20°C for 3 months.		
Always centrifuge tubes before opening. Do not mix by vortex or pipetting.			
RECONSTITUTION	It is not recommended to reconstitute to a concentration less than 100µg/ml.		
	Dissolve the lyophilized protein in distilled water.		
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.		
QUALITY	Mol Mass:21.2kDa AP Mol Mass:20kDa, reducing conditions.		
	<b>Purity</b> : Greater than 95% as determined by reducing SDS-PAGE.		
CONTROL	Endotoxin: Less than 0.1ng/μg (1 EU/μg) as determined by LAL test.		
	Ferritin heavy polypeptide 1(FTH1), is a ubiquitous intracellular protein which		
BACKGROUND	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		
	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.		
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