Recombinant FHL19 protein (His tag)

Catalog Number	551809
Synonyms	Ferritin heavy polypeptide 1 pseudogene 19
Species	Human
Expression System	E. coli
Accession	P0C7X4
Molecular Weight	Predictes a molecular mass of 17.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	1-141
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-141 aa (P0C7X4) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This product is a high-quality recombinant protein fragment of human Putative ferritin heavy polypeptide-like 19 (FTH1P19), encompassing the complete Ferritin-like diiron functional domain (residues 1-141). It is an essential tool for researchers investigating iron storage, metabolism, and the specific biochemical functions of this conserved domain. The full-length protein, encoded by the pseudogene FTH1P19, is a member of the ferritin family. Ferritins are ubiquitous and highly conserved proteins responsible for intracellular iron storage and detoxification, playing a crucial role in maintaining cellular iron homeostasis. They form nanocage structures capable of sequestering thousands of iron atoms, protecting cells from oxidative damage caused by free iron. While detailed functional and localization data for this specific pseudogene product is not fully characterized, its homology to functional ferritin heavy chains suggests a related role in iron metabolism pathways.