HFE Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702321
Synonyms:	Hereditary hemochromatosis protein homolog
Species:	Mouse
Source:	E. coli Cell-free
Accession:	P70387 (Q25-E359)
Gene ID:	15216
Molecular Weight:	39.5 kDa

PROPERTIES

AA Sequence	Q A L P P R S H S L R Y L F M G A S E P D L G L P L F E A R G Y V D D Q L F V S Y N H E S R R A E P R A P W I L E Q T S S Q L W L H L S Q S L K G W D Y M F I V D F W T I M G N Y N H S K V T K L G V V S E S H I L Q V V L G C E V H E D N S T S G F W R Y G Y D G Q D H L E F C P K T L N W S A A E P G A W A T K V E W D E H K I R A K Q N R D Y L E K D C P E Q L K R L L E L G R G V L G Q Q V P T L V K V T R H W A S T G T S L R C Q A L D F F P Q N I T M R W L K D N Q P L D A K D V N P E K V L P N G D E T Y Q G W L T L A V A P G D E T R F T C Q V E H P G L D Q P L T A S W E P L Q S Q A M I I G I I S G V T V C A I F L V G I L F L I L R K R K A S G G T M G G Y V L T D C E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The HFE protein assumes a crucial role as it binds to the transferrin receptor (TFR), effectively reducing its affinity for iron-loaded transferrin. This interaction occurs through the extracellular domain of HFE in a pH-dependent manner, emphasizing

the intricacies of the molecular mechanisms involved. By modulating the affinity of TFR for iron-loaded transferrin, HFE plays a pivotal role in the regulation of iron homeostasis, showcasing its significance in cellular processes related to iron uptake and metabolism.

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