

Recombinant Human HFE, His-tagged

Cat. No. HFE-7087H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HFE protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	23-306aa
Description	HFE, also known as HLA-H, belongs to the MHC class I family. This protein contains 1 Ig-like C1-type (immunoglobulin-like) domain. HFE is a membrane protein that is similar to MHC class I-type proteins and associates with beta-2 microglobulin (beta2M). It is thought that this protein functions to regulate iron absorption by regulating the interaction of the transferrin receptor (TFR) with transferrin. It binds to transferrin receptor (TFR) and reduces its affinity for iron-loaded transferrin.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea,10% glycerol
Molecular Mass	35.7kDa (308aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMRLLRSH SLHYLFMGAS EQDLGLSLFE ALGYVDDQLF VFYDHESRRV EPRTPWVSSR ISSQMWLQLS QSLKGWDHMF TVDFWTIMEN HNHSKESHTL QVILGCEMQE DNSTEGYWKY GYDGQDHLEF CPDTLDWRAA EPRAWPTKLE WERHKIRARQ NRAYLERDCP AQLQQLLELG RGVLDQQVPP LVKVTHHVTS SVTTLRCRAL NYYPQNITMK WLKDKQPMDA

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	KEFEPKDVLP NGDGTQGW I TLAVPPGEEQ RYTCQVEHPG LDQPLIVIWE PSPSGTLV
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml
GENE INFORMATION	
Gene Name	HFE hemochromatosis [Homo sapiens]
Official Symbol	HFE
Synonyms	HFE; hemochromatosis; hereditary hemochromatosis protein; high Fe; HLA H; MHC class I-like protein HFE; hereditary hemochromatosis protein HLA-H; HH; HFE1; HLA-H; MVCD7; TFQTL2; MGC103790; MGC:150812; dJ221C16.10.1; IMAGE:40125754;
Gene ID	3077
mRNA Refseq	NM_000410
Protein Refseq	NP_000401
MIM	613609
UniProt ID	Q30201

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Chromosome Location	6p21.3
Function	protein binding;