

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 CPDLDWRAA EPRAWPTKLE WERHKIRARQ NRAYLERDCP AQLQQLLELG RGVLDQQVPP LVKVTHHVTS SVTTLRCRAL NYYPQNITMK WLKDKQPMDA

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KEFEPKDVLP NGDGTYYQGWV 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;

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