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Recombinant human HFE protein

Catalog Number: ATGP1869

PRODUCT INFORMATION

Expression system

E.coli

Domain

23-306aa

UniProt No.

030201

NCBI Accession No.

NP 000401.1

Alternative Names

Hereditary hemochromatosis protein, HFE1, HH, HLA-H, MVCD7, TFQTL2

PRODUCT SPECIFICATION

Molecular Weight

35.7 kDa (308aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human HFE protein, fused to His-tag at N-terminus, was expressed in E. coli.



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Amino acid Sequence

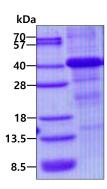
<MGSSHHHHHH SSGLVPRGSH MGSM>RLLRSH SLHYLFMGAS EQDLGLSLFE ALGYVDDQLF VFYDHESRRV EPRTPWVSSR ISSQMWLQLS QSLKGWDHMF TVDFWTIMEN HNHSKESHTL QVILGCEMQE DNSTEGYWKY GYDGQDHLEF CPDTLDWRAA EPRAWPTKLE WERHKIRARQ NRAYLERDCP AQLQQLLELG RGVLDQQVPP LVKVTHHVTS SVTTLRCRAL NYYPQNITMK WLKDKQPMDA KEFEPKDVLP NGDGTYQGWI TLAVPPGEEQ RYTCQVEHPG LDQPLIVIWE PSPSGTLV

General References

Feder J.N., et al. (1998) Proc. Natl. Acad. Sci. u.S.A. 95:1472-1477 West, A P, et al. (2000) J. Biol. Chem. (uNITED STATES) 275 (49): 38135-8.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

