

Recombinant Human HFE2 protein, His & Fc-tagged

Cat. No. HFE2-469H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HFE2 (Q6ZVN8) aa. (Gln36~Asp400) fused with His & Fc tag was produced in HEK293F cells.
Species	Human
Source	HEK293
ProteinLength	Gln36~Asp400
Description	The product of this gene is involved in iron metabolism. It may be a component of the signaling pathway which activates hepcidin or it may act as a modulator of hepcidin expression. It could also represent the cellular receptor for hepcidin. Two uORFs in the 5' UTR negatively regulate the expression and activity of the encoded protein. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. Defects in this gene are the cause of hemochromatosis type 2A, also called juvenile hemochromatosis (JH). JH is an early-onset autosomal recessive disorder due to severe iron overload resulting in hypogonadotropic hypogonadism, hepatic fibrosis or cirrhosis and cardiomyopathy, occurring typically before age of 30.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 66.1kDa; Accurate Molecular Mass: 69kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 95%
Characteristic	Isoelectric point is 7.7
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays; Purification; Amine Reactive Labeling
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200ug/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	HFE2 hemochromatosis type 2 (juvenile) [Homo sapiens (human)]
Official Symbol	HFE2

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Synonyms	HFE2; hemochromatosis type 2 (juvenile); JH; HJV; RGMC; HFE2A; hemojuvelin; RGM domain family member C; haemojuvelin; hemochromatosis type 2 protein; repulsive guidance molecule c
Gene ID	148738
mRNA Refseq	NM_001316767.1
Protein Refseq	NP_001303696.1
UniProt ID	Q6ZVN8
SDS-PAGE	