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Datasheet for ABIN7317877 HFE2 Protein (His tag)

Overview

Quantity:	100 µg
Target:	HFE2
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HFE2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Hemojuvelin/HFE2 Protein (His Tag)
Sequence:	Met 1-Ser 399
Characteristics:	A DNA sequence encoding the mature form of human HFE2 isoform a (Q6ZVN8-1) (Met 1-Ser 399) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	HFE2
Alternative Name:	Hemojuvelin/HFE2 (HFE2 Products)
Background:	Background: Hemojuvelin, also known as HFE2, is a membrane-bound and soluble protein which belongs to the repulsive guidance molecule (RGM) family. It is known that RGMs function through Neogenin, a homologue of the Netrin receptor deleted in colon cancer. In mammals,

Target Details

RGM family consists of three glycoproteins which have discrete expression patterns and functions (RGM-A, RGM-B, and RGM-C). Hemojuvelin is expressed in adult and fetal liver, heart, and skeletal muscle. Hemojuvelin acts as a bone morphogenetic protein (BMP) coreceptor. Enhancement of BMP signaling regulates hepcidin (HAMP) expression and iron metabolism. It plays a key role in iron metabolism. Hemojuvelin represents the cellular receptor for hepcidin. It may be a component of the signaling pathway which activates hepcidin or it may act as a modulator of hepcidin expression. Defects in hemojuvelin are the cause of hemochromatosis type 2A, also known as juvenile hemochromatosis (JH).

Synonym: HFE2A,HJV,JH,RGMC

Molecular Weight: 40 kDa

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, 500 mM NaCl, pH 7.0, 10 % gly

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.