

HFE, 23-306aa, Human, His tag, E.coli

Cat.NO.: TP02445

3th Edition

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

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.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight: 35.7kDa (308aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMRLLRSHSLHYLFMGASEQDLGLSLFEALGYVDDQLFVFYDHESRRVEPRT
PWVSSRISSQMWLQLSQSLKGWDHMFVTDFWTIMENHNHSHKESHTLQVILGCEMQEDNSTEGYWKYGYDGQDH
LEFCPDTLDWRAAEPRAPWPTKLEWERHKIRARQNRAYLERDCPAQLQQLLELGRGVLDQQVPPLVKVTHHVTSSV
TTLRCRALNYYPQNITMKWLKDKQPMDAKEFEPKDVLPNGDGTYYQGWITLAVPPGEEQRYTCQVEHPGLDQPLIVI
WEPSPSGTLV

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.