
Product Data Sheet

Product Name: HFE Human

Cat. No.: GP23637

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Hereditary hemochromatosis protein; HLA-H; HFE; HLAH; HH; HFE1; MVCD7; TFQTL2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMRLLRSH SLHYLFMGAS EQDLGLSLFE ALGYVDDQLF VFYDHESRRV EPRTPWVSSR ISSQMWLQLS QSLKGWDHMF TVDFWTIMEN HNHSKESHTL QVILGCEMQE DNSTEGYWKY GYDGDHLEF CPDTLDWRAA EPRAWPTKLE WERHKIRARQ NRAYLERDCP AQLQQLLELG RGVLDQQVPP LVKVTHHVTS SVTTLRCRAL NYYPQNITMK WLKDKQPMDA KEFEPKDVLP NGDGTQYQGI TLAVPPGEEQ RYTCQVEHPG LDQPLIVIWE PPSGTLV.		
Formulation	HFE protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Hemochromatosis (HFE) is a member of the MHC class I family. The Hemochromatosis protein contains 1 Ig-like C1-type (immunoglobulin-like) domain. HFE is a membrane protein, which is similar to MHC class I-type proteins and associates with beta-2 microglobulin (beta2M). It is assumed that the HFE protein acts to regulate iron absorption by regulating the interaction of the transferrin receptor (TFR) with transferrin. HFE binds to transferrin receptor (TFR) and reduces its affinity for iron-loaded transferrin.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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HFE Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 308 amino acids (23-306 a.a) and having a molecular mass of 35.7kDa.HFE is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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