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Product datasheet for PH319465

HFE (NM_139009) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HFE MS Standard C13 and N15-labeled recombinant protein (NP_620578)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219465
Predicted MW:	35.1 kDa
Protein Sequence:	>RC219465 representing NM_139009 Red=Cloning site Green=Tags(s) MGPRARPALLLLMLLQTAVLQGRLLPLGYVDDQLFVFYDHESRRVEPRTPWVSSRISSQMWLQLSQSLKG WDHMFTVDFWTIMENHNHSKESHTLQVILGCEMQEDNSTEGYWKYGYDGQDHLEFCPDTLDWRAAEPRAW PTKLEWERHKIRARQNRAYLERDCPAQLQQLLELGRGVLDQQVPPLVKVTHHVTSSVTTLRCRALNYYPQ NITMKWLKDKQPMDAKEFEPKDVLPNGDGTYQGWITLAVPPGEEQRYTCQVEHPGLDQPLIVIWEPSPSG TLVIGVISGIAVFVVILFIGILFIILRKRQGSRGAMGHYVLAERE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_620578
RefSeq Size:	1280
RefSeq ORF:	975
Synonyms:	HFE1; HH; HLA-H; MVCD7; TFQTL2
Locus ID:	3077

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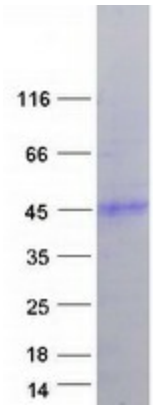
UniProt ID: Q30201

Cytogenetics: 6p22.2

Summary: The protein encoded by this gene is a membrane protein that is similar to MHC class I-type proteins and associates with beta2-microglobulin (beta2M). It is thought that this protein functions to regulate iron absorption by regulating the interaction of the transferrin receptor with transferrin. The iron storage disorder, hereditary haemochromatosis, is a recessive genetic disorder that results from defects in this gene. At least nine alternatively spliced variants have been described for this gene. Additional variants have been found but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Product images:



Coomassie blue staining of purified HFE protein (Cat# [TP319465]). The protein was produced from HEK293T cells transfected with HFE cDNA clone (Cat# [RC219465]) using MegaTran 2.0 (Cat# [TT210002]).