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Product datasheet for TP721154XL

HEPC (HAMP) (NM_021175) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human hepcidin antimicrobial peptide (HAMP)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Asp60-Thr84
Tag:	N-GST
Predicted MW:	2.92 kDa
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_066998
Locus ID:	57817
UniProt ID:	P81172
RefSeq Size:	430
Cytogenetics:	19q13.12
RefSeq ORF:	252
Synonyms:	HEPC; HFE2B; LEAP1; PLTR

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Summary: The product encoded by this gene is involved in the maintenance of iron homeostasis, and it is necessary for the regulation of iron storage in macrophages, and for intestinal iron absorption. The preproprotein is post-translationally cleaved into mature peptides of 20, 22 and 25 amino acids, and these active peptides are rich in cysteines, which form intramolecular bonds that stabilize their beta-sheet structures. These peptides exhibit antimicrobial activity against bacteria and fungi. Mutations in this gene cause hemochromatosis type 2B, also known as juvenile hemochromatosis, a disease caused by severe iron overload that results in cardiomyopathy, cirrhosis, and endocrine failure. [provided by RefSeq, Oct 2014]

Protein Families: Secreted Protein, Transmembrane