

Recombinant Human HAMP, MYC/DDK-tagged

Cat. No. HAMP-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HAMP, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	6.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	HAMP hepcidin antimicrobial peptide [Homo sapiens (human)]
Official Symbol	HAMP
Synonyms	HAMP; hepcidin antimicrobial peptide; HEPC; PLTR; HFE2B; LEAP1; hepcidin; liver-expressed antimicrobial peptide 1; putative liver tumor regressor
Gene ID	57817
mRNA Refseq	NM_021175
Protein Refseq	NP_066998
UniProt ID	P81172
Chromosome Location	19q13.1
Pathway	Iron metabolism in placenta
Function	hormone activity

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