

Recombinant Human HAMP protein, GST-tagged

Cat. No. HAMP-280H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HAMP fused with GST tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	Supplied as a 0.2 μM filtered solution of PBS, pH 7.4, 50% glycerol
Molecular Mass	2.92kD
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMAIIRYI ADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSR IAYSKDF ETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTH PDFMLYDALDVVLYMDPMCLD AFPKLVCFKKR IEAIPQIDKYLKSSKYIAWPLQGWQATFGGGDHPKSDLVPRG SEN

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LYFQGHMDTHFPICIFCCGCCHRSKCG

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

GENE INFORMATION

Gene Name HAMP hepcidin antimicrobial peptide [Homo sapiens]

Official Symbol HAMP

Synonyms HAMP; hepcidin antimicrobial peptide; hepcidin; HEPC; HFE2B; LEAP 1; LEAP1; putative liver tumor regressor; liver-expressed antimicrobial peptide 1; PLTR;

Gene ID 57817

mRNA Refseq NM_021175

Protein Refseq NP_066998

MIM 606464

UniProt ID P81172

Chromosome Location 19q13.1

Function hormone activity;

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