

Recombinant Human HAMP Protein, His-tagged

Cat. No. HAMP-955H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HAMP Protein (Ser25-Thr84) with His tag was expressed in 293F.
Species	Human
Source	HEK293
ProteinLength	Ser25-Thr84
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.1 kDa; Accurate Molecular Mass: 34 kDa
Purity	> 95%

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Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 10mM PBS (pH7.6) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	HAMP hepcidin antimicrobial peptide [Homo sapiens (human)]
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

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UniProt ID

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