

Recombinant Human HAMP protein, His & Fc-tagged

Cat. No. HAMP-458H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HAMP (P81172) aa. (Ser25~Thr84) fused with His & Fc tag was produced in HEK293F cells.
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: 34.1kDa; Accurate Molecular Mass: 33&40kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95%
Characteristic	Isoelectric point is 9.4.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays; Purification; Amine Reactive Labeling
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200ug/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) 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; HEPC; PLTR; HFE2B; LEAP1; hepcidin; liver-expressed antimicrobial peptide 1; putative liver tumor regressor

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID	57817
mRNA Refseq	NM_021175.3
Protein Refseq	NP_066998.1
UniProt ID	P81172
SDS-PAGE	