

Recombinant Dog HAMP Protein, His&GST-tagged

Cat. No. HAMP-2732D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog HAMP Protein (Val23-Thr85) with N-His&GST tag was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	Val23-Thr85
Description	Liver-produced hormone that constitutes the main circulating regulator of iron absorption and distribution across tissues. Acts by promoting endocytosis and degradation of ferroportin/SLC40A1, leading to the retention of iron in iron-exporting cells and decreased flow of iron into plasma. Controls the major flows of iron into plasma: absorption of dietary iron in the intestine, recycling of iron by macrophages, which phagocytose old erythrocytes and other cells, and mobilization of stored iron from hepatocytes.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 36.9 kDa Accurate Molecular Mass: 42 kDa
Purity	> 80%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 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 [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	HAMP
Synonyms	HAMP; hepcidin antimicrobial peptide; hepcidin; HFE2B; PLTR; LEAP1; Liver-expressed antimicrobial peptide 1; Putative liver tumor regressor
Gene ID	492281
mRNA Refseq	NM_001007140
Protein Refseq	NP_001007141
UniProt ID	Q5U9D2

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