



Human HAMP peptide (DAG-P0534)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. 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. [provided by RefSeq, Jul 2008]
Specificity	Highest expression in liver and to a lesser extent in heart and brain. Low levels in lung, tonsils, salivary gland, trachea, prostate gland, adrenal gland and thyroid gland. Secreted into the urine.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Applications	ELISA
Sequence Similarities	Belongs to the hepcidin family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

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

Official Symbol	HAMP
Synonyms	HAMP; hepcidin antimicrobial peptide; HEPC; PLTR; HFE2B; LEAP1; hepcidin; putative liver tumor regressor; liver-expressed antimicrobial peptide 1;
Entrez Gene ID	57817
mRNA Refseq	NM_021175.2
Protein Refseq	NP_066998.1
UniProt ID	P81172
Chromosome Location	19q13.1
Pathway	Iron metabolism in placenta, organism-specific biosystem;
Function	hormone activity;