

Human Hepcidin ELISA Kit | HAMP elisa kit

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CATALOG #
AAA263047

REACTIVITY
Human

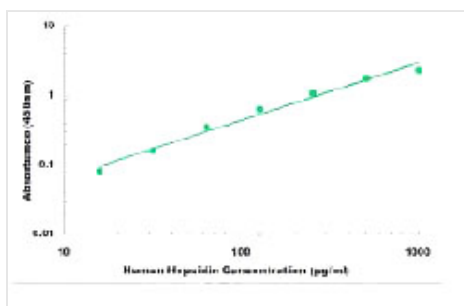
PRODUCT SYNONYMS

Hepcidin; Human Hepcidin ELISA Kit; HEPC; LEAP1; Liver-expressed antimicrobial peptide 1; LEAP-1; Putative liver tumor regressor; PLTR; HAMP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Hepcidin ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Hepcidin proteins within the range of 15.6 pg/ml - 1000 pg/ml.
Sequence Length	84
Samples	Cell Culture Supernates, Serum, Plasma
Sensitivity	<10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HAMP elisa kit	Principle of the Assay: The Human Hepcidin ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Hepcidin in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Human Hepcidin coated on a 96-well plate. Standards and samples are pipetted into the wells and Hepcidin present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Hepcidin antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Hepcidin bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: Hepcidin is a protein that in humans is encoded by the HAMP gene. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10863973
NCBI GeneID	57817
NCBI Accession #	NP_066998.1
NCBI GenBank Nucleotide #	NM_021175.3
UniProt Accession #	P81172; Q1HE14; Q9BY68
Molecular Weight	9,408 Da
NCBI Official Full Name	hepcidin preproprotein
NCBI Official Synonym Full Names	hepcidin antimicrobial peptide
NCBI Official Symbol	HAMP
NCBI Official Synonym Symbols	HEPC; PLTR; HFE2B; LEAP1
NCBI Protein Information	hepcidin
UniProt Protein Name	Hepcidin
UniProt Gene Name	HAMP
UniProt Synonym Gene Names	HEPC; LEAP1; LEAP-1; PLTR; Hpc25; Hpc20
UniProt Entry Name	HEPC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hamp-human-elisa-kits/hepcidin/263047>