

## Product datasheet

### Human Hepcidin-25 peptide **ab31875**

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#### Description

<b>Product name</b>	Human Hepcidin-25 peptide
<b>Purity</b>	> 70 % HPLC. 70 - 90% by HPLC
<b>Accession</b>	<b><u>P81172</u></b>
<b>Animal free</b>	No
<b>Nature</b>	Synthetic
<b>Species</b>	Human

#### Specifications

Our **Abpromise guarantee** covers the use of **ab31875** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Blocking - Blocking peptide for Anti-Hepcidin-25 antibody ( <b><u>ab30760</u></b> ) ELISA
<b>Form</b>	Lyophilized
<b>Additional notes</b>	Storage buffer: 10% 0.5M acetic acid, 90% TK buffer. pH 3.6 Solutions of ab31875, diluted 10 times, in TBST (80%) and PBS (10%) have a pH of 5.1

#### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.
<b>Reconstitution</b>	Reconstitute in 10% 0.5M acetic acid, 90% TK buffer. If the peptide doesn't dissolve try an organic solvent like DMSO, then dilute using water or buffer. Gentle warming and sonication can effectively aid peptide solubilisation

#### General Info

<b>Function</b>	Liver-produced hormone that constitutes the main circulating regulator of iron absorption and
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distribution across tissues. Acts by promoting endocytosis and degradation of ferroportin, 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 (PubMed:22306005).

Has strong antimicrobial activity against E.coli ML35P N.cinerea and weaker against S.epidermidis, S.aureus and group b streptococcus bacteria. Active against the fungus C.albicans. No activity against P.aeruginosa (PubMed:11113131, PubMed:11034317).

<b>Tissue specificity</b>	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.
<b>Involvement in disease</b>	Hemochromatosis 2B
<b>Sequence similarities</b>	Belongs to the hepcidin family.
<b>Cellular localization</b>	Secreted.

## Images

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Human Hepcidin-25 peptide (ab31875)

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