Product datasheet

Human Hepcidin-25 peptide ab31875

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Description

<table>
<thead>
<tr>
<th>Product name</th>
<th>Human Hepcidin-25 peptide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity</td>
<td>70 - 90% by HPLC.</td>
</tr>
<tr>
<td>Accession</td>
<td>P81172</td>
</tr>
<tr>
<td>Animal free</td>
<td>No</td>
</tr>
<tr>
<td>Nature</td>
<td>Synthetic</td>
</tr>
<tr>
<td>Species</td>
<td>Human</td>
</tr>
</tbody>
</table>

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.

Applications  Blocking - Blocking peptide for Anti-Hepcidin-25 antibody (ab30760)
               ELISA

Form  Lyophilised

Additional notes  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

Stability and 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.

Reconstitution  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

Function  Liver-produced hormone that constitutes the main circulating regulator of iron absorption and
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).

### Tissue 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.

### Involvement in disease
Hemochromatosis 2B

### Sequence similarities
Belongs to the hepcidin family.

### Cellular localization
Secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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