**Human Ghrelin peptide ab73131**

### Description

<table>
<thead>
<tr>
<th>Product name</th>
<th>Human Ghrelin peptide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity</td>
<td>&gt; 95% SDS-PAGE. This peptide was purified by proprietary chromatographic techniques. Purity: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.</td>
</tr>
<tr>
<td>Accession</td>
<td>Q9UBU3</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>
<tr>
<td>Sequence</td>
<td>Gly-Ser-Ser(n-octanoyl)-Phe-Leu-Ser-Pro-Glu-His-Gln-Arg-Val-Gln-Gln-Arg-Lys-Glu-Ser-Lys-Pro-Pro-Ala-Lys-Leu-Gln-Pro-Arg-OH</td>
</tr>
<tr>
<td>Predicted molecular weight</td>
<td>3 kDa</td>
</tr>
<tr>
<td>Amino acids</td>
<td>24 to 51</td>
</tr>
<tr>
<td>Additional sequence information</td>
<td>molecular formula of C149H249N47O42. Ghrelin Human contains 28 amino acids and a total molecular mass of 3370.9 Dalton and a molecular formula of C149H249N47O42.</td>
</tr>
</tbody>
</table>

### Specifications

Our Abpromise guarantee covers the use of ab73131 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

#### Applications
- SDS-PAGE

#### Form
- Lyophilised

#### Additional notes
- Total molecular mass of the peptide is 3370.9 daltons
- Molecular formula: C$^{149}$H$^{249}$N$^{47}$O$^{42}$

### Preparation and Storage

#### Stability and Storage
- Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
- Preservative: None
- No additives

#### Reconstitution
- Add deionized water to a working concentration approximately 0.5 mg/ml and let the lyophilized
pellet dissolve completely.

**General Info**

**Function**
Ghrelin is the ligand for growth hormone secretagogue receptor type 1 (GHSR). Induces the release of growth hormone from the pituitary. Has an appetite-stimulating effect, induces adiposity and stimulates gastric acid secretion. Involved in growth regulation.
Obestatin may be the ligand for GPR39. May have an appetite-reducing effect resulting in decreased food intake. May reduce gastric emptying activity and jejunal motility.

**Tissue specificity**
Highest level in stomach. All forms are found in serum as well. Other tissues compensate for the loss of ghrelin synthesis in the stomach following gastrectomy.

**Sequence similarities**
Belongs to the motilin family.

**Post-translational modifications**
O-octanoylation or O-decanoylation is essential for ghrelin activity. The O-decanoylated forms Ghrelin-27-C10 and Ghrelin-28-C10 differ in the length of the carbon backbone of the carboxylic acid bound to Ser-26. A small fraction of ghrelin, ghrelin-28-C10:1, may be modified with a singly unsaturated carboxylic acid.
Amidation of Leu-98 is essential for obestatin activity.

**Cellular localization**
Secreted.

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

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.

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