Recombinant Human Ghrelin protein ab89233

Overview

Product name: Recombinant Human Ghrelin protein
Protein length: Full length protein

Description

Nature: Recombinant
Source: Escherichia coli
Amino Acid Sequence
Species: Human

Specifications

Our Abpromise guarantee covers the use of ab89233 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications
- Western blot
- SDS-PAGE

Purity
- > 90% SDS-PAGE.
ab89233 is purified using conventional chromatography techniques. Endotoxin: < 1.0 EU per 1 microgram of protein (determined by LAL method).

Form
- Liquid

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.
- pH: 8.00
- Constituents: 0.316% Tris HCl, 10% Glycerol

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.

**Images**

15% SDS-PAGE showing ab89233 (3µg).

Note: Real molecular weight on SDS-PAGE is shifted up compared to predicted molecular weight.

Anti-Ghrelin antibody (ab57222) at 1 µg/ml + Recombinant Human Ghrelin protein (ab89233) at 0.1 µg

**Secondary**

Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Exposure time:** 2 minutes

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