

Recombinant human Ghrelin/Obestatin protein

Catalog Number: ATGP0411

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-117aa

UniProt No.

Q9UBU3

NCBI Accession No.

AAH25791

Alternative Names

Appetite-regulating hormone, Obestatin, GHRL, MTLRP, Ghrelin-27, Ghrelin-28, M-46 protein, Appetite-regulating hormone Appetite regulating hormone, Ghrelin 27, Ghrelin 28, Ghrelin/obestatin prepropeptide, Motilin related peptide, Growth hormone releasing peptide, Growth hormone secretagogue, M46 protein,

PRODUCT SPECIFICATION

Molecular Weight

12.8 kDa (115aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.2M NaCl, 0.1mM PMSF

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Ghrelin, also known as Obestatin, is the ligand for growth hormone secretagogue receptor type 1 (GHSR). It induces the release of growth hormone from the pituitary and involved in growth regulation. This protein has an

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appetite-stimulating effect, induces adiposity and stimulates gastric acid secretion. Ghrelin plays a significant role in neurotrophs, particularly in the hippocampus, and is essential for cognitive adaptation to changing environments and the process of learning. Recombinant Ghrelin protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

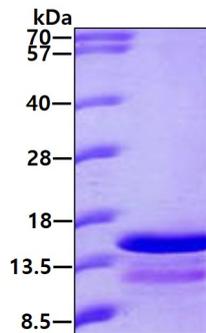
<MGSSHHHHHH SSGLVPRGSH> MGSSFLSPEH QRVQQRKESK KPPAKLQPRALAGWLRPEDG GQAEGAEDDEM
EVRFNAPFDV GIKLSGVQYQ QHSQALGKFL QDILWEEAKE APADK

General References

Tschop M, et al. (2000) *Nature*. 407:908-913.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.