

Recombinant Human Ghrelin/Obestatin Prepropeptide, His-tagged

Cat. No. GHRL-5008H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Ghrelin protein, fused to His-tag, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
ProteinLength	24-117 aa
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 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.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 10% glycerol.
Purity	> 90% by SDS - PAGE
Sequence	24-117 amino acids: MGSSHHHHHH SSGLVPRGSH MGSSFLSPEH QRVQQRKESK KPPAKLQPR A LAGWLRPEDG GQAEGAEDM EVRFNAPFDV

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GIKLSGVQYQ QHSQALGKFL QDILWEEAKE APADK

Molecular Mass 12.8 kDa (115aa), confirmed by MALDI-TOF.

Applications SDS - PAGE

Endotoxin Levels < 1.0 EU per ug of protein (determined by LAL method)

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name GHRL ghrelin/obestatin prepropeptide [Homo sapiens]

Official Symbol GHRL

Synonyms GHRL; ghrelin/obestatin prepropeptide; MTLRP; obestatin; ghrelin/obestatin; OTTHUMP00000207794; OTTHUMP00000207795; OTTHUMP00000207796; OTTHUMP00000207798; motilin-related peptide; ghrelin/obestatin preprohormone; ghrelin, growth hormone secretagogue receptor ligand; ghrelin; Appetite-regulating hormone; M46 protein; Growth hormone secretagogue; Growth hormone-releasing peptide; Ghrelin-27; Ghrelin-28

Gene ID 51738

mRNA Refseq NM_001134941

Protein Refseq NP_001128413

MIM 605353

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UniProt ID	Q9UBU3
Chromosome Location	3p26-p25
Pathway	Neuroactive ligand-receptor interaction
Function	ghrelin receptor binding; growth hormone-releasing hormone activity; protein tyrosine kinase activator activity

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