

# Recombinant Human Ghrelin/Obestatin Prepropeptide, His-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Ghrelin protein, fused to His-tag, was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	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 neurotropy, particularly in the hippocampus, and is essential for cognitive adaptation to changing environments and the process of learning.
<b>Concentration</b>	1 mg/ml
<b>Form</b>	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 10% glycerol.
<b>Purity</b>	> 90% by SDS - PAGE
<b>Sequence</b>	24-117 amino acids: MGSSHHHHHH SSGLVPRGSH MGSSFLSPEH QRVQQRKESK KPPAKLQPRALAGWLRPEDG GQAEGAEDEM EVRFNAPFDV GIKLSGVQYQ QHSQALGKFL QDILWEEAKE APADK

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<b>Molecular Mass</b>	12.8 kDa (115aa), confirmed by MALDI-TOF.
<b>Applications</b>	SDS - PAGE
<b>Endotoxin Levels</b>	< 1.0 EU per ug of protein (determined by LAL method )
<b>Storage</b>	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.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GHRL ghrelin/obestatin prepropeptide [ Homo sapiens ]
<b>Official Symbol</b>	GHRL
<b>Synonyms</b>	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
<b>Gene ID</b>	51738
<b>mRNA Refseq</b>	NM_001134941
<b>Protein Refseq</b>	NP_001128413
<b>MIM</b>	605353
<b>UniProt ID</b>	Q9UBU3

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<b>Chromosome Location</b>	3p26-p25
<b>Pathway</b>	Neuroactive ligand-receptor interaction
<b>Function</b>	ghrelin receptor binding; growth hormone-releasing hormone activity; protein tyrosine kinase activator activity

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