

Recombinant Human Ghrelin/Obestatin Prepropeptide

Cat. No. GHRL-179H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Ghrelin protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 12.8 kDa (115aa).
Species	Human
Source	E.coli
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.
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MGSSFLSPEH QRVQQRKESK KPPAKLQPRA LAGWLRPEDG GQAEGAEDM EVRFNAPFDV GIKLSGVQYQ QHSQALGKFL QDILWEEAKE APADK
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

GHRL ghrelin/obestatin prepropeptide [Homo sapiens]

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

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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