

Recombinant Human GHRL, His-tagged

Cat. No. GHRL-29023TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human Ghrelin with His tag; amino acids 24-117 , 12.8kDa.
Species	Human
Source	E.coli
ProteinLength	24-117 a.a.
Description	This gene encodes ghrelin-obestatin preproprotein, which generates ghrelin and obestatin. Ghrelin is an endogenous ligand for the growth hormone secretagogue receptor and is involved in regulating growth hormone release. Obestatin was initially reported to be an endogenous ligand for the orphan G protein-coupled receptor GPR39 and was involved in satiety and decreased food intake; however, these findings are controversial. Recent reports show that obestatin is involved in inhibiting thirst and anxiety, improving memory, regulating sleep, affecting cell proliferation, and increasing the secretion of pancreatic juice enzymes. Alternative promoters and alternative splicing result in multiple transcript variants, some of which encode different protein isoforms and some of which do not encode a protein but may regulate the ghrelin-obestatin preproprotein expression. In addition, antisense transcripts for this gene have been identified and may also function in regulation of the ghrelin-obestatin preproprotein expression.
Conjugation	HIS
Tissue specificity	Highest level in stomach. All forms are found in serum as well. Other tissues

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compensate for the loss of ghrelin synthesis in the stomach following gastrectomy.

Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the motilin family.
Full Length	Full L.

GENE INFORMATION

Gene Name	GHRL ghrelin/obestatin prepropeptide [Homo sapiens]
Official Symbol	GHRL
Synonyms	GHRL; ghrelin/obestatin prepropeptide; ghrelin, growth hormone secretagogue receptor ligand; appetite-regulating hormone; ghrelin; MTLRP; obestatin;
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	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Diabetes pathways, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem;
Function	G-protein coupled receptor binding; ghrelin receptor binding; ghrelin receptor binding; growth hormone-releasing hormone activity; growth hormone-releasing hormone activity;