

Recombinant Human GHRL Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GHRL-4132H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GHRL MS Standard C13 and N15-labeled recombinant protein (NP_057446) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the ghrelin-obestatin preproprotein that is cleaved to yield two peptides, ghrelin and obestatin. Ghrelin is a powerful appetite stimulant and plays an important role in energy homeostasis. Its secretion is initiated when the stomach is empty, whereupon it binds to the growth hormone secretagogue receptor in the hypothalamus which results in the secretion of growth hormone (somatotropin). Ghrelin is thought to regulate multiple activities, including hunger, reward perception via the mesolimbic pathway, gastric acid secretion, gastrointestinal motility, and pancreatic glucose-stimulated insulin secretion. It was initially proposed that obestatin plays an opposing role to ghrelin by promoting satiety and thus decreasing food intake, but this action is still debated. Recent reports suggest multiple metabolic roles for obestatin, including regulating adipocyte function and glucose metabolism. Alternative splicing results in multiple transcript variants. In addition, antisense transcripts for this gene have been identified and may potentially regulate ghrelin-obestatin preproprotein expression.
Molecular Mass	12.9 kDa

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AA Sequence	MPSPGTVCSLLLLGMLWDLAMAGSSFLSPEHQRVQQRKESKKPPAKLQPRALAG WLRPEDGGQAEGAEDEMEVRFNAPFDVGIKLSGVQYQQHSQALGKFLQDILWEEA KEAPADKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	GHRL ghrelin/obestatin prepropeptide [Homo sapiens (human)]
Official Symbol	GHRL
Synonyms	GHRL; ghrelin/obestatin prepropeptide; ghrelin, growth hormone secretagogue receptor ligand; appetite-regulating hormone; ghrelin; MTLRP; obestatin; motilin-related peptide; growth hormone secretagogue; ghrelin/obestatin preprohormone; growth hormone-releasing peptide;
Gene ID	51738
mRNA Refseq	NM_016362
Protein Refseq	NP_057446

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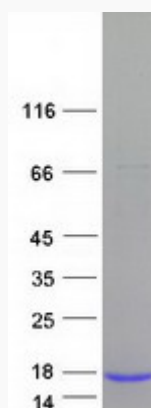
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MIM 605353

UniProt ID Q9UBU3

SDS-PAGE



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