

Product datasheet for PH306989

MTLRP (GHRL) (NM_016362) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GHRL MS Standard C13 and N15-labeled recombinant protein (NP_057446)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206989
Predicted MW:	12.9 kDa
Protein Sequence:	>RC206989 protein sequence Red=Cloning site Green=Tags(s) MPSPGTVCSLLLLLGLWLDLAMAGSSFLSPEHQRVQQRKESKKPPAKLQPRALAGWLRPEDGGQAEGAED EMEVRFNAPFDVGIKLSGVYQQHSQALGKFLQDILWEEAKEAPADK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_057446
RefSeq Size:	552
RefSeq ORF:	351
Synonyms:	MTLRP
Locus ID:	51738
UniProt ID:	Q9UBU3
Cytogenetics:	3p25.3



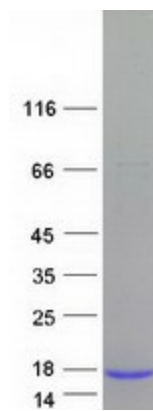
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Summary:

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. [provided by RefSeq, Nov 2014]

Protein Families:

Druggable Genome, Secreted Protein, Transmembrane

Product images:

Coomassie blue staining of purified GHRL protein (Cat# [TP306989]). The protein was produced from HEK293T cells transfected with GHRL cDNA clone (Cat# [RC206989]) using MegaTran 2.0 (Cat# [TT210002]).