

Product datasheet for PH315122

Gastrin Releasing Peptide (GRP) (NM_001012513) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GRP MS Standard C13 and N15-labeled recombinant protein (NP_001012531)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215122
Predicted MW:	15.18 kDa
Protein Sequence:	>RC215122 representing NM_001012513 Red=Cloning site Green=Tags(s) MRGRELPLVLLALVLC LAPRGRAVPLPAGGGTVLTKMYPRGNHWAVGHLMGKKSTGESSVSSERGLKQQ LREYIRWEEAARNLLGLIEAKENRNHQPPQPKALGNQQPSWSEDSNFKDLVDSLLQVLNVKEGTPS TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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_001012531
RefSeq Size:	844
RefSeq ORF:	414
Synonyms:	BN; GRP-10; preproGRP; proGRP
Locus ID:	2922
UniProt ID:	P07492
Cytogenetics:	18q21.32



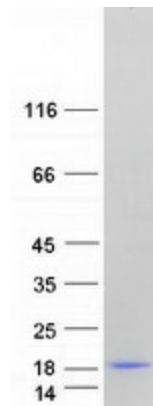
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Summary:

This gene encodes a member of the bombesin-like family of gastrin-releasing peptides. The encoded preproprotein is proteolytically processed to generate two peptides, gastrin-releasing peptide and neuromedin-C. These peptides regulate numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation. These peptides are also likely to play a role in human cancers of the lung, colon, stomach, pancreas, breast, and prostate. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Protein Families:

Secreted Protein

Product images:

Coomassie blue staining of purified GRP protein (Cat# [TP315122]). The protein was produced from HEK293T cells transfected with GRP cDNA clone (Cat# [RC215122]) using MegaTran 2.0 (Cat# [TT210002]).