GRP Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	GRP, Lysate
Full Product Name	Human GRP Protein Lysate
Product Gene Name	GRP lysate
Product Synonym Names	GRP; BN; GRP-10; preproGRP; proGRP
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	16,213 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (56887400..56898003). Location: 18q21.1-q21.32
OMIM	137260
3D Structure	ModBase 3D Structure for P07492
Related Product Information for GRP lysate	Human GRP Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of GRP lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GRP purchase	MBS8412613 is a lysate targeting GRP. Also known as Human GRP Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRP. It may not necessarily be applicable to this product.

NCBI GI #	31542860
NCBI GeneID	2922
NCBI Accession #	NP_002082
UniProt Primary Accession #	P07492
UniProt Secondary Accession #	P07491; P81553; Q14454; Q53YA0; Q9BSY7
UniProt Related Accession #	P07492
GenBank Nucleotide #	NM_002091
NCBI Official Full Name	gastrin-releasing peptide isoform 1 preproprotein
NCBI Official Synonym Full Names	gastrin-releasing peptide
NCBI Official Symbol	GRP
NCBI Official Synonym Symbols	BN; GRP-10; proGRP; preproGRP
UniProt Protein Name	Gastrin-releasing peptide

UniProt Synonym Protein Names	GRP-10
Protein Family	Beta-1,3-glucan-binding protein
UniProt Gene Name	GRP
UniProt Synonym Gene Names	GRP
UniProt Entry Name	GRP_HUMAN
NCBI Protein Information	gastrin-releasing peptide; bombesin; prepro-GRP; neuromedin C; pre-progastrin releasing peptide
NCBI Summary for GRP	This gene encodes a member of the bombesin-like family of gastrin-releasing peptides. Its preproprotein, following cleavage of a signal peptide, is further processed to produce either the 27 aa gastrin-releasing peptide or the 10 aa neuromedin C. These smaller 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 encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for GRP	GRP: GRP stimulates gastrin release as well as other gastrointestinal hormones. Operates as a negative feedback regulating fear and established a causal relationship between GRP- receptor gene expression, long-term potentiation, and amygdala- dependent memory for fear. Belongs to the bombesin/neuromedin-B/ranatensin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 18q21.1-q21.32 Cellular Component: extracellular space; extracellular region Molecular Function: neuropeptide hormone activity; receptor binding Biological Process: neuropeptide signaling pathway; signal transduction
Research Articles on GRP	**1.** inhibits the process of autophagy in vascular endothelial cells, thereby increasing endothelial cell proliferation and tubule formation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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