Grancalcin/GCA (GCA) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Grancalcin/GCA, Recombinant Protein
Full Product Name	Recombinant Human Grancalcin/GCA Protein (N-GST)
Product Gene Name	GCA recombinant protein
Product Synonym Names	Grancalcin; GCA; GCL
Host	E Coli
Form/Format	Lyophilized from a 0.2 mum filtered solution of 20mM Tris HCl, 500mM NaCl, pH 8.5.
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	Molecular Mass: 50.3 kDa Actual Protein Molecular Mass: 53 kDa
Sequence Positions	Met1-Ile217
3D Structure	ModBase 3D Structure for P28676
Species	Human
Endotoxin	<1.0 EU per ug as determined by LAL test.
Fusion Tag	N-GST
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GCA recombinant protein	Grancalcin (GCA) is a member of the penta EF hand subfamily which includes sorcin, calpain and ALG2. Grancalcin is highly expressed bone marrow and also can detected in neutrophils and macrophages. Grancalcin interacts with L-plastin which known to have actin bundling activity. It indicates that Grancalcin may play an important role in the adhesion of neutrophils to fibronectin. Furthermore, Grancalcin localization is dependent upon calcium and magnesium. It associates with both the granule and membrane fractions, which suggested a role for grancalcin in granule-membrane fusion and degranulation.
Other Notes	Small volumes of GCA recombinant protein 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 GCA purchase	MBS2552735 is a recombinant protein targeting GCA. Also known as Recombinant Human Grancalcin/GCA Protein (N-GST). Host: E Coli.

ADDITIONAL DETAILS

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

NCBI GI #	6912388
NCBI GeneID	25801
NCBI Accession #	NP_036330.1
UniProt Primary Accession #	P28676
UniProt Secondary Accession #	Q53TB5; Q59EP3; B2R5X3

UniProt Related Accession #	P28676
GenBank Nucleotide #	NM_012198.4
NCBI Official Full Name	grancalcin isoform b
NCBI Official Synonym Full Names	grancalcin
NCBI Official Symbol	GCA
NCBI Official Synonym Symbols	GCL
UniProt Protein Name	Grancalcin
Protein Family	Grancalcin
UniProt Gene Name	GCA
UniProt Synonym Gene Names	GCL
NCBI Protein Information	grancalcin
NCBI Summary for GCA	This gene encodes a calcium-binding protein that is abundant in neutrophils and macrophages. In the absence of divalent cation, this protein localizes to the cytosolic fraction; with magnesium alone, it partitions with the granule fraction; and in the presence of magnesium and calcium, it associates with both the granule and membrane fractions. Alternative splicing and use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Aug 2016]
UniProt Comments for GCA	Calcium-binding protein that may play a role in the adhesion of neutrophils to fibronectin. May play a role in the formation of focal adhesions.
Research Articles on GCA	**1.** Results indicate that heterodimerization of GCA and TLR9 is important for TLR9-mediated downstream signaling and might serve to fine tune processes against viral infection.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/grancalcin-gca/2552735