SGCA Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	SGCA, Blocking Peptide
Full Product Name	SGCA Blocking Peptide
Product Gene Name	SGCA blocking peptide
Product Synonym Names	50 DAG; 50 kDa dystrophin associated glycoprotein; 50 kDa dystrophin-associated glycoprotein; 50DAG; 50kD DAG; 59kDa; A2; adhalin; ADL; Alpha SG; Alpha-sarcoglycan; Alpha-SG; Asg; DAG2; DMDA2; Dystroglycan 2; Dystroglycan-2; LGMD2D; sarcoglycan, alpha (dystrophin-associated glycoprotein); SCARMD1; Sgca; SGCA_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SGCA peptide (MBS9623937) is used for blocking the activity of SGCA antibody (MBS9605220)
Molecular Weight	42,875 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (48243366..48253293). Location: 17q21
OMIM	600119
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for SGCA blocking peptide	Blocking/Control
Related Product Information for SGCA blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of SGCA blocking peptide 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 SGCA purchase	MBS9623937 is a blocking peptide targeting SGCA.

ADDITIONAL DETAILS

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

NCBI GI #	4506911
NCBI GeneID	6442
NCBI Accession #	NP_000014.1

UniProt Primary Accession #	Q16586
UniProt Secondary Accession #	Q13710; Q13712; A6NEB8; A8K3K7
UniProt Related Accession #	Q16586
GenBank Nucleotide #	NM_000023.3
NCBI Official Full Name	alpha-sarcoglycan isoform 1
NCBI Official Synonym Full Names	sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein)
NCBI Official Symbol	SGCA
NCBI Official Synonym Symbols	A2; ADL; DAG2; DMDA2; 50-DAG; LGMD2D; SCARMD1; adhalin
UniProt Protein Name	Alpha-sarcoglycan
UniProt Synonym Protein Names	50 kDa dystrophin-associated glycoprotein; 50DAG; Adhalin; Dystroglycan-2
Protein Family	Alpha-sarcoglycan
UniProt Gene Name	SGCA
UniProt Synonym Gene Names	ADL; DAG2; Alpha-SG; 50DAG
UniProt Entry Name	SGCA_HUMAN
NCBI Protein Information	alpha-sarcoglycan; 50DAG; 50kD DAG; alpha-SG; dystroglycan-2; 50 kDa dystrophin-associated glycoprotein
NCBI Summary for SGCA	This gene encodes a component of the dystrophin-glycoprotein complex (DGC), which is critical to the stability of muscle fiber membranes and to the linking of the actin cytoskeleton to the extracellular matrix. Its expression is thought to be restricted to striated muscle. Mutations in this gene result in type 2D autosomal recessive limb-girdle muscular dystrophy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]
UniProt Comments for SGCA	SGCA: Component of the sarcoglycan complex, a subcomplex of the dystrophin-glycoprotein complex which forms a link between the F-actin cytoskeleton and the extracellular matrix. Defects in SGCA are the cause of limb-girdle muscular dystrophy type 2D (LGMD2D); also known as Duchenne- like muscular dystrophy autosomal recessive type 2 or severe childhood autosomal recessive muscular dystrophy (SCARMD). LGMD2D is an autosomal recessive degenerative myopathy characterized by progressive muscle wasting from early childhood with loss of independent ambulation by teenage years. Muscle biopsy shows necrosis, decreased immunostaining for alpha sarcoglycan, and adhalin deficiency. The phenotype is less severe than LGMD2C. Belongs to the sarcoglycan alpha/epsilon family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 17q21 Cellular Component: dystrophin-associated glycoprotein complex; cytoskeleton; cytoplasm; integral to membrane; sarcoglycan complex; intercellular junction; sarcolemma; lipid raft Molecular Function: calcium ion binding Biological Process: muscle development; muscle contraction Disease: Muscular Dystrophy, Limb-girdle, Type 2d
Research Articles on SGCA	**1.** DNA analysis demonstrated homozygosity for a point mutation (574C>T) in the alpha-sarcoglycan gene.
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