CACNG5 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	CACNG5, Blocking Peptide
Full Product Name	CACNG5 Blocking Peptide
Product Gene Name	CACNG5 blocking peptide
Product Synonym Names	CACNG 5; Cacng5; Calcium channel voltage dependent gamma subunit 5; CCG5_HUMAN; MGC126656; MGC126682; Neuronal voltage gated calcium channel gamma 5 subunit; Neuronal voltage-gated calcium channel gamma-5 subunit; Voltage dependent calcium channel gamma 5 subunit; Voltage-dependent calcium channel gamma-5 subunit
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	CACNG5 peptide (MBS9622519) is used for blocking the activity of CACNG5 antibody (MBS9603801)
Molecular Weight	35
OMIM	606405
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 CACNG5 blocking peptide	Blocking/Control
Related Product Information for CACNG5 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 CACNG5 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 CACNG5 purchase	MBS9622519 is a blocking peptide targeting CACNG5.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CACNG5. It may not necessarily be applicable to this product.

NCBI GI #	22027551
NCBI GeneID	27091
NCBI Accession #	NP_665810.1
UniProt Primary Accession #	Q9UF02

UniProt Secondary Accession #	Q547R3; Q8WXS7; Q9UHM3; A8K2A6
UniProt Related Accession #	Q9UF02
GenBank Nucleotide #	NM_145811.2
NCBI Official Full Name	voltage-dependent calcium channel gamma-5 subunit
NCBI Official Synonym Full Names	calcium voltage-gated channel auxiliary subunit gamma 5
NCBI Official Symbol	CACNG5
UniProt Protein Name	Voltage-dependent calcium channel gamma-5 subunit
UniProt Synonym Protein Names	Neuronal voltage-gated calcium channel gamma-5 subunit; Transmembrane AMPAR regulatory protein gamma-5; TARP gamma-5
Protein Family	Voltage-dependent calcium channel
UniProt Gene Name	CACNG5
UniProt Synonym Gene Names	TARP gamma-5
UniProt Entry Name	CCG5_HUMAN
NCBI Protein Information	voltage-dependent calcium channel gamma-5 subunit
NCBI Summary for CACNG5	The protein encoded by this gene is a type II transmembrane AMPA receptor regulatory protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two family members, a type I TARP and a calcium channel gamma subunit. This gene is a susceptibility locus for schizophrenia and bipolar disorder. [provided by RefSeq, Dec 2010]
UniProt Comments for CACNG5	CACNG5: Regulates the gating properties of AMPA-selective glutamate receptors (AMPARs). Modulates their gating properties by accelerating their rates of activation, deactivation and desensitization. Displays subunit-specific AMPA receptor regulation. Shows specificity for GRIA1, GRIA4 and the long isoform of GRIA2. Thought to stabilize the calcium channel in an inactivated (closed) state. Belongs to the PMP-22/EMP/MP20 family. CACNG subfamily. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Channel, calcium Chromosomal Location of Human Ortholog: 17q24 Cellular Component: postsynaptic membrane; postsynaptic density; cell junction Molecular Function: voltage-gated calcium channel activity; ion transmembrane transporter activity Biological Process: transport
Research Articles on CACNG5	**1.** These results indicate that CACNG4, CACNG5, CACNG6 and CACNG8 may contribute to the risk of SCZ. The statistical epistasis identified between CACNG5 and CACNG6 suggests that there may be an underlying biological interaction between the two genes.
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