Voltage-Dependent Calcium Channel Gamma-3 Subunit (CACNG3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Voltage-dependent calcium channel gamma-3 subunit (CACNG3), Recombinant Protein
Full Product Name	Recombinant Human Voltage-dependent calcium channel gamma-3 subunit (CACNG3)
Product Gene Name	CACNG3 recombinant protein
Product Synonym Gene Name	CACNG3
Product Synonym Names	Recombinant Voltage-dependent calcium channel gamma-3 subunit (CACNG3); Voltage-dependent calcium channel gamma-3 subunit; Neuronal voltage-gated calcium channel gamma-3 subunit Transmembrane AMPAR regulatory protein gamma-3; TARP gamma-3
Sequence	MRMCDRGIQM LITTVGAFAA FSLMTIAVGT DYWLYSRGVC RTKSTSDNET SRKNEEVMTH SGLWRTCCLE GAFRGVCKKI DHFPEDADYE QDTAEYLLRA VRASSVFPIL SVTLLFFGGL CVAASEFHRS RHNVILSAGI FFVSAGLSNI IGIIVYISAN AGDPGQRDSK KSYSYGWSFY FGAFSFIIAE IVGVVAVHIY IEKHQQLRAK SHSEFLKKST FARLPPYRYR FRRRSSSRST EPRSRDLSPI SKGFHTIPST DISMFTLSRD PSKITMGTLL NSDRDHAFLQ FHNSTPKEFK ESLHNNPANR RTTPV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	35,549 Da
Sequence Positions	1-315
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
Chromosome Location	Chromosome: 16; NC_000016.9 (24266874..24373737). Location: 16p12.1
OMIM	606403
3D Structure	ModBase 3D Structure for O60359
Species	Homo sapiens (Human)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CACNG3 recombinant protein	MBS1162484 is a recombinant protein targeting CACNG3. Also known as Recombinant Human Voltage-dependent calcium channel gamma-3 subunit (CACNG3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CACNG3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CACNG3. It may not necessarily be applicable to this product.

NCBI GI #	5729756
NCBI GeneID	10368
NCBI Accession #	NP_006530.1
UniProt Primary Accession #	O60359
UniProt Related Accession #	O60359
GenBank Nucleotide #	NM_006539.3
NCBI Official Full Name	voltage-dependent calcium channel gamma-3 subunit
NCBI Official Synonym Full Names	calcium channel, voltage-dependent, gamma subunit 3
NCBI Official Symbol	CACNG3
UniProt Protein Name	Voltage-dependent calcium channel gamma-3 subunit
UniProt Synonym Protein Names	Neuronal voltage-gated calcium channel gamma-3 subunit; Transmembrane AMPAR regulatory protein gamma-3
Protein Family	Voltage-dependent calcium channel
UniProt Gene Name	CACNG3
UniProt Synonym Gene Names	TARP gamma-3
UniProt Entry Name	CCG3_HUMAN
NCBI Protein Information	voltage-dependent calcium channel gamma-3 subunit; TARP gamma-3; voltage-gated calcium channel gamma subunit; transmembrane AMPAR regulatory protein gamma-3; neuronal voltage-gated calcium channel gamma-3 subunit
NCBI Summary for CACNG3	The protein encoded by this gene is a type I 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. This gene is a susceptibility locus for childhood absence epilepsy. [provided by RefSeq, Dec 2010]
UniProt Comments for CACNG3	CACNG3: Regulates the trafficking and gating properties of AMPA- selective glutamate receptors (AMPARs). Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization. Does not show subunit-specific AMPA receptor regulation and regulates all AMPAR subunits. 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; Channel, calcium; Membrane protein, integral Chromosomal Location of Human Ortholog: 16p12.1 Cellular Component: plasma membrane; voltage-gated calcium channel complex Molecular Function: voltage-gated calcium channel activity Biological Process: synaptic transmission; calcium ion transport
Research Articles on CACNG3	**1.** These results suggest that CACNG3 is the best candidate for an age-related macular degeneration risk gene within the 16p12 linkage peak.
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