Voltage-Dependent L-Type Calcium Channel Subunit Beta-2 (CACNB2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Voltage-dependent L-type calcium channel subunit beta-2 (Cacnb2), Recombinant Protein
Full Product Name	Recombinant Mouse Voltage-dependent L-type calcium channel subunit beta-2 (Cacnb2)
Product Gene Name	Cacnb2 recombinant protein
Product Synonym Gene Name	Cacnb2
Sequence	MVQSDTSKSP PVAAVAQESQ MELLESAAPA GALGAQSYGK GARRKNRFKG SDGSTSSDTT SNSFVRQGSA DSYTSRPSDS DVSLEEDREA VRREAERQAQ AQLEKAKTKP VAFAVRTNVR YSAAQEDDVP VPGMAISFEA KDFLHVKEKF NNDWWIGRLV KEGCEIGFIP SPVKLENMRL QHEQRAKQGK FYSSKSGGNS SSSLGDIVPS SRKSTPPSSA IDIDATGLDA EENDIPANHR SPKPSANSVT SPHSKEKRMP FFKKTEHTPP YDVVPSMRPV VLVGPSLKGY EVTDMMQKAL FDFLKHRFEG RISITRVTAD ISLAKRSVLN NPSKHAIIER SNTRSSLAEV QSEIERIFEL ARTLQLVVLD ADTINHPAQL SKTSLAPIIV YVKISSPKVL QRLIKSRGKS QAKHLNVQMV AADKLAQCPP QESFDVILDE NQLEDACEHL ADYLEAYWKA THPPSGNLPN PLLSRTLASS TLPLSPTLAS NSQGSQGDQR PDRSAPRSAS QAEEEPCLEP VKKSQHRSSS ATHQNHRSGT GRGLSRQETF DSETQESRDS AYVEPKEDYS HEHVDRYVPH REHNHREETH SSNGHRHRES RHRSRDMGRD QDHNECIKQR SRHKSKDRYC DKEGEVISKR RNEAGEWNRD VYIRQ
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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	64,714 Da
Sequence Positions	1-655, Full length protein
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.
3D Structure	ModBase 3D Structure for Q8CC27
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cacnb2 recombinant protein	This gene encodes a subunit of a voltage-dependent calcium channel protein which is a member of the voltage-gated calcium channel superfamily. The gene product was originally identified as an antigen target in Lambert-Eaton myasthenic syndrome which is an autoimmune disorder. Mutations in this gene are associated with Brugada symdrome. Alternatively spliced variants have been identified for this gene.
Other Notes	Small volumes of Cacnb2 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 Cacnb2 purchase	MBS1413391 is a recombinant protein targeting Cacnb2. Also known as Recombinant Mouse Voltage-dependent L-type calcium channel subunit beta-2 (Cacnb2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cacnb2. It may not necessarily be applicable to this product.

NCBI GI #	828747400
NCBI GeneID	12296
NCBI Accession #	NP_001296448.1
UniProt Primary Accession #	Q8CC27
UniProt Secondary Accession #	Q8C5J5; Q9CTQ6; A2ASJ8
UniProt Related Accession #	Q8CC27
GenBank Nucleotide #	NM_001309519.1
NCBI Official Full Name	voltage-dependent L-type calcium channel subunit beta-2 isoform 3
NCBI Official Synonym Full Names	calcium channel, voltage-dependent, beta 2 subunit
NCBI Official Symbol	Cacnb2
NCBI Official Synonym Symbols	CAB2; Cchb2; AW060387; Cavbeta2
UniProt Protein Name	Voltage-dependent L-type calcium channel subunit beta-2
UniProt Synonym Protein Names	Calcium channel voltage-dependent subunit beta 2
Protein Family	Voltage-dependent L-type calcium channel
UniProt Gene Name	Cacnb2
UniProt Synonym Gene Names	Cacnlb2; CAB2
NCBI Protein Information	voltage-dependent L-type calcium channel subunit beta-2
UniProt Comments for Cacnb2	The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting.
Research Articles on Cacnb2	**1.** L-type Ca2+ channels in the caveolae microdomain do not affect cardiac function and are not necessary for the regulation of hypertrophic signaling in the adult mouse heart.
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