Protocadherin Beta-11 (PCDHB11) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protocadherin beta-11 (PCDHB11), Recombinant Protein
Full Product Name	Recombinant Human Protocadherin beta-11 (PCDHB11), partial
Product Gene Name	PCDHB11 recombinant protein
Product Synonym Gene Name	PCDHB11
Sequence	GSET WSFSVAEEMQ SGSFVGNLAK DLGLKVRELS SRGARVVSND KKQRLQLDIN TGDLLLSETL DREELCGSIE PCVLHLQVLM QNPTQFLQIE LQVRDINDHS PIFSEKQMLL EIPENSPVGA VFLLESAKDL DVGINAVKSY TISPNSHFHI KMRVIPDNRK YPELVLDKAL DYEELPELSF ILSALDGGSP PRSGTALVRV VVVDINDNSP EFEQAFYEVK IRENSILGSL ILIVSAWDLD SGTNGEICYT FSHASEDIRK TFEINQKSGE ITLRAPLDFE TIESYSIIIQ ATDGGGLFGK STVIIHVIDV NDNAPEITVS SITSPIPENT PETVVMVFSI QDIDSGDNGR IVCSIPEDLP FVLKSSVENY YTLETERPLD RESTAEYNIT ITVTDLGIPR LKTEHNTTVL VSDVNDNAPT FTQTSYTLFV RENNSPALHI GSVSATDRDS GTNAQVNYSL LPPQDLHLPL ASLVSINTDN GHLFALRSLD YEALQAFDFR VGATDRGSPA LSSEALVRVL VLDANDNSPF VLYPLQNGSA PCTELVPRAA EPGYLVTKVV AVDGDSGQNA WLSYQLLKAT EPGLFGVWAH NGEVRTARLL SERDAAKHRL VVLVKDNGEP PRSATATLQV LLVDGFSQPY LPLPEAAPAQ AQADSLTVYL
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	46,732 Da
Sequence Positions	27-690
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.
OMIM	604967
3D Structure	ModBase 3D Structure for Q9Y5F2
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PCDHB11 recombinant protein	This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3 exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections.

Other Notes	Small volumes of PCDHB11 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 PCDHB11 purchase	MBS1344756 is a recombinant protein targeting PCDHB11. Also known as Recombinant Human Protocadherin beta-11 (PCDHB11), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCDHB11. It may not necessarily be applicable to this product.

NCBI GI #	9256604
NCBI GeneID	56125
NCBI Accession #	NP_061754.1
UniProt Primary Accession #	Q9Y5F2
UniProt Secondary Accession #	Q2M223; B4DSF7
UniProt Related Accession #	Q9Y5F2
GenBank Nucleotide #	NM_018931.2
NCBI Official Full Name	protocadherin beta-11
NCBI Official Synonym Full Names	protocadherin beta 11
NCBI Official Symbol	PCDHB11
NCBI Official Synonym Symbols	ME2; PCDH-BETA11
UniProt Protein Name	Protocadherin beta-11
Protein Family	Protocadherin
UniProt Gene Name	PCDHB11
UniProt Synonym Gene Names	PCDH-beta-11
NCBI Protein Information	protocadherin beta-11
NCBI Summary for PCDHB11	This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections. [provided by RefSeq, Jul 2008]
UniProt Comments for PCDHB11	Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain.
Research Articles on PCDHB11	**1.** The brain-expressed protein with the highest number of human-specific substitutions is PCDHB11. In spite of its fast evolution and low intra-human variability, cell-based tests on the only proposed function for PCDHB11 did not indicate a functional change.
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