Protocadherin Gamma-B4 (PCDHGB4) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protocadherin gamma-B4 (PCDHGB4), Recombinant Protein
Full Product Name	Recombinant Human Protocadherin gamma-B4 (PCDHGB4), partial
Product Gene Name	PCDHGB4 recombinant protein
Product Synonym Gene Name	PCDHGB4
Sequence	EQIRYRIPEE MPKGSVVGNL ATDLGFSVQE LPTRKLRVSS EKPYFTVSAE SGELLVSSRL DREEICGKKP ACALEFEAVA ENPLNFYHVN VEIEDINDHT PKFTQNSFEL QISESAQPGT RFILGSAHDA DIGSNTLQNY QLSPSDHFSL INKEKSDGSK YPEMVLKTPL DREKQKSYHL TLTALDFGAP PLSSTAQIHV LVTDANDNAP VFSQDVYRVS LSENVYPGTT VLQVTATDQD EGVNAEITFS FSEASQITQF DLNSNTGEIT VLNTLDFEEV KEYSIVLEAR DGGGMIAQCT VEVEVIDEND NAPEVIFQSL PNLIMEDAEL GTHIALLKVR DKDSRHNGEV TCKLEGDVPF KILTSSRNTY KLVTDAVLDR EQNPEYNITV TATDRGKPPL SSSSSITLHI GDVNDNAPVF SQSSYIVHVA ENNPPGASIS QVRASDPDLG PNGQVSYCIM ASDLEQRELS SYVSISAESG VVFAQRAFDH EQLRAFELTL QARDQGSPAL SANVSLRVLV DDRNDNAPRV LYPALGPDGS ALFDMVPHAA EPGYLVTKVV AVDADSGHNA WLSYHVLQAS EPGLFSLGLR TGEVRTARAL GDRDAVRQRL LVAVRDGGQP PLSATATLHL VFADSLQEVL PDITDRPDPS DLQAELQFY
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	87,447 Da
Sequence Positions	31-689
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	603058
3D Structure	ModBase 3D Structure for Q9UN71
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PCDHGB4 recombinant protein	This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. This particular family member is expressed in fibroblasts and is thought to play a role in wound healing in response to injury. Alternative splicing has been described for the gamma cluster genes.

Other Notes	Small volumes of PCDHGB4 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 PCDHGB4 purchase	MBS1348614 is a recombinant protein targeting PCDHGB4. Also known as Recombinant Human Protocadherin gamma-B4 (PCDHGB4), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCDHGB4. It may not necessarily be applicable to this product.

NCBI GI #	13470082
NCBI GeneID	8641
NCBI Accession #	NP_003727.1
UniProt Primary Accession #	Q9UN71
UniProt Secondary Accession #	O15099; Q2M267; Q9UN64
UniProt Related Accession #	Q9UN71
GenBank Nucleotide #	NM_003736.2
NCBI Official Full Name	protocadherin gamma-B4 isoform 1
NCBI Official Synonym Full Names	protocadherin gamma subfamily B, 4
NCBI Official Symbol	PCDHGB4
NCBI Official Synonym Symbols	FIB2; CDH20; PCDH-GAMMA-B4
UniProt Protein Name	Protocadherin gamma-B4
UniProt Synonym Protein Names	Cadherin-20; Fibroblast cadherin-2
Protein Family	Protocadherin
UniProt Gene Name	PCDHGB4
UniProt Synonym Gene Names	CDH20; FIB2; PCDH-gamma-B4
NCBI Protein Information	protocadherin gamma-B4
UniProt Comments for PCDHGB4	Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/protocadherin-gamma-b4-pcdhgb4/1348614