Protocadherin Alpha-4 (PCDHA4) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protocadherin alpha-4 (Pcdha4), Recombinant Protein
Full Product Name	Recombinant Rat Protocadherin alpha-4 (Pcdha4), partial
Product Gene Name	Pcdha4 recombinant protein
Product Synonym Gene Name	Pcdha4
Sequence	Q LHYSIPEEAK HGTFVGRIAQ DLGLELAELV PRLFRVASKD RGDLLEVNLQ NGILFVNSRI DREELCGRSA ECSIHLEVIV DRPLQVFHVE VEVRDINDNP PTFPTTQKNL FIAESRPLDT WFPLEGASDS DIGINAVLTY RLSPNDYFSL EKPTNSERVK GLGLILRKSL DREETPELFL VLTVTDGGKP ELTGSVQLLI TVLDANDNSP VFDRSLYTVK LPENVPNGTL VVKVNASDLD EGANGEVMYS FSTDISPNVK NKFHIDPVTG EIAVKGYIDF EECTSYEILI EGIDKGQLPL SGHCKVIVQV EDINDNAPEL EFKSLSLPIR ENAPVGTVIA LISVFDPDTG VNGQVTCSLT PQVPFKLVST FKNYYSLVLD SALDRETTAD YKVVVIARDG GLPSLWATAS VSVEVADVND NAPAFAQPEY TVFVKENNPP GAHIFTVSAV DADSQENALV SYSLVERRVG ERLLSSYVSV HAESGKVFAL QPLDHEELEL LQFQVSARDA GVPALGSNVT LQVFVLDEND NAPTLLEPEA GISGGIVSRL VSRSVGAGHV VAKVRAVDAD SGYNAWLSYE LQSSEGNSRS LFRVGLYTGE ISTTRSLDEA DSPRQRLLVL VKDHGDPAMM VTATVLVSLV ENGPLPKAPS RVSTRVTNAE ASLVDVN
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	75,329 Da
Sequence Positions	30-697
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 Q767I8
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Pcdha4 recombinant protein	This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined.
Other Notes	Small volumes of Pcdha4 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 Pcdha4 purchase	MBS1370313 is a recombinant protein targeting Pcdha4. Also known as Recombinant Rat Protocadherin alpha-4 (Pcdha4), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Pcdha4. It may not necessarily be applicable to this product.

NCBI GI #	40789237
NCBI GeneID	116741
NCBI Accession #	NP_446385.1
UniProt Primary Accession #	Q767I8
UniProt Secondary Accession #	Q5U2Z9; Q8CJ01
UniProt Related Accession #	Q767I8
GenBank Nucleotide #	NM_053933.1
NCBI Official Full Name	protocadherin alpha-4
NCBI Official Synonym Full Names	protocadherin alpha 4
NCBI Official Symbol	Pcdha4
NCBI Official Synonym Symbols	Cnr1; cnr5; Pcdha1; Pcdha2; Pcdha5; Pcdha6; Pcdha7; Pcdha8; Pcdha9; Pcdha10; Pcdha11; Pcdha12; Pcdha13; Pcdhac1; Pcdhac2; rCNRv01; rCNRv02; rCNRv05; rCNRv06; rCNRv07; rCNRv08; rCNRv09; rCNRv10; rCNRv11; rCNRv12; rCNRv13; rCNRvc1; rCNRvc2
UniProt Protein Name	Protocadherin alpha-4
UniProt Synonym Protein Names	Cadherin-related neuronal receptor 4
Protein Family	Protocadherin
UniProt Gene Name	Pcdha4
UniProt Synonym Gene Names	PCDH-alpha-4Curated
NCBI Protein Information	protocadherin alpha-4
NCBI Summary for Pcdha4	binds dental epithelial and mesenchymal cells; may play a role in enamel and dentin formation during incisor development [RGD, Feb 2006]
UniProt Comments for Pcdha4	Calcium-dependent cell-adhesion protein involved in cells self-recognition and non-self discrimination. Thereby, it is involved in the establishment and maintenance of specific neuronal connections in the brain.
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