PDZ and LIM Domain Protein 5 (PDLIM5) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	PDZ and LIM domain protein 5 (PDLIM5), Recombinant Protein
Full Product Name	Recombinant Human PDZ and LIM domain protein 5 (PDLIM5)
Product Gene Name	PDLIM5 recombinant protein
Product Synonym Gene Name	PDLIM5
Sequence	SNYSVSLVGP APWGFRLQGG KDFNMPLTIS SLKDGGKAAQ ANVRIGDVVL SIDGINAQGM THLEAQNKIK GCTGSLNMTL QRASAAPKPE PVPVQKGEPK EVVKPVPITS PAVSKVTSTN NMAYNKAPRP FGSVSSPKVT SIPSPSSAFT PAHATTSSHA SPSPVAAVTP PLFAASGLHA NANLSADQSP SALSAGKTAV NVPRQPTVTS VCSETSQELA EGQRRGSQGD SKQQNGPPRK HIVERYTEFY HVPTHSDASK KRLIEDTEDW RPRTGTTQSR SFRILAQITG TEHLKESEAD NTKKANNSQE PSPQLASSVA STRSMPESLD SPTSGRPGVT SLTAAAAFKP VGSTGVIKSP SWQRPNQGVP STGRISNSAT YSGSVAPANS ALGQTQPSDQ DTLVQRAEHI PAGKRTPMCA HCNQVIRGPF LVALGKSWHP EEFNCAHCKN TMAYIGFVEE KGALYCELCY EKFFAPECGR CQRKILGEVI SALKQTWHVS CFVCVACGKP IRNNVFHLED GEPYCETDYY ALFGTICHGC EFPIEAGDMF LEALGYTWHD TCFVCSVCCE SLEGQTFFSK KDKPLCKKHA HSVNF
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	52,645 Da
Sequence Positions	2-596, 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.
OMIM	605904
3D Structure	ModBase 3D Structure for Q96HC4
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PDLIM5 recombinant protein	This protein is a LIM domain protein. LIM domains are cysteine-rich double zinc fingers composed of 50 to 60 amino acids that are involved in protein-protein interactions. LIM domain-containing proteins are scaffolds for the formation of multiprotein complexes. The proteins are involved in cytoskeleton organization, cell lineage specification, organ development, and oncogenesis. The encoded protein is also a member of the Enigma class of proteins, a family of proteins that possess a 100-amino acid PDZ domain in the N terminus and 1 to 3 LIM domains in the C terminus. Multiple transcript variants encoding different isoforms have been found for this gene, although not all of them have been fully characterized.
Other Notes	Small volumes of PDLIM5 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 PDLIM5 purchase	MBS1444676 is a recombinant protein targeting PDLIM5. Also known as Recombinant Human PDZ and LIM domain protein 5 (PDLIM5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDLIM5. It may not necessarily be applicable to this product.

NCBI GI #	58533159
NCBI GeneID	10611
NCBI Accession #	NP_001011515.1
UniProt Primary Accession #	Q96HC4
UniProt Secondary Accession #	O60705; Q56VN4; Q5UW38; Q8WVK0; A8K6F9; D6RB78; E9PBF5
UniProt Related Accession #	Q96HC4
GenBank Nucleotide #	NM_001011515.2
NCBI Official Full Name	PDZ and LIM domain protein 5 isoform d
NCBI Official Synonym Full Names	PDZ and LIM domain 5
NCBI Official Symbol	PDLIM5
NCBI Official Synonym Symbols	L9; ENH; LIM; ENH1
UniProt Protein Name	PDZ and LIM domain protein 5
UniProt Synonym Protein Names	Enigma homolog; Enigma-like PDZ and LIM domains protein
Protein Family	PDZ and LIM domain protein
UniProt Gene Name	PDLIM5
UniProt Synonym Gene Names	ENH
NCBI Protein Information	PDZ and LIM domain protein 5
NCBI Summary for PDLIM5	This gene encodes a member of a family of proteins that possess a 100-amino acid PDZ domain at the N terminus and one to three LIM domains at the C-terminus. This family member functions as a scaffold protein that tethers protein kinases to the Z-disk in striated muscles. It is thought to function in cardiomyocyte expansion and in restraining postsynaptic growth of excitatory synapses. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]
UniProt Comments for PDLIM5	May play an important role in the heart development by scaffolding PKC to the Z-disk region. May play a role in the regulation of cardiomyocyte expansion. Overexpression promotes the development of heart hypertrophy. Contributes to the regulation of dendritic spine morphogenesis in neurons. May restrain postsynaptic growth of excitatory synapses ().
Research Articles on PDLIM5	**1.** PDLIM5 was strongly up-regulated during cardiomyogenesis and novel stage-specific isoforms were detected for PDLIM5
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