Partitioning Defective 6 Homolog Alpha (PARD6A) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Partitioning defective 6 homolog alpha (PARD6A), Recombinant Protein
Full Product Name	Recombinant Human Partitioning defective 6 homolog alpha (PARD6A)
Product Gene Name	PARD6A recombinant protein
Product Synonym Gene Name	PARD6A
Sequence	MARPQRTPAR SPDSIVEVKS KFDAEFRRFA LPRASVSGFQ EFSRLLRAVH QIPGLDVLLG YTDAHGDLLP LTNDDSLHRA LASGPPPLRL LVQKRAEADS SGLAFASNSL QRRKKGLLLR PVAPLRTRPP LLISLPQDFR QVSSVIDVDL LPETHRRVRL HKHGSDRPLG FYIRDGMSVR VAPQGLERVP GIFISRLVRG GLAESTGLLA VSDEILEVNG IEVAGKTLDQ VTDMMVANSH NLIVTVKPAN QRNNVVRGAS GRLTGPPSAG PGPAEPDSDD DSSDLVIENR QPPSSNGLSQ GPPCWDLHPG CRHPGTRSSL PSLDDQEQAS SGWGSRIRGD GSGFSL
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	37,317 Da
Sequence Positions	1-346, 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	607484
3D Structure	ModBase 3D Structure for Q9NPB6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PARD6A recombinant protein	This gene is a member of the PAR6 family and encodes a protein with a PSD95 Discs-large ZO1 (PDZ) domain and a semi-Cdc42 Rac interactive binding (CRIB) domain. This cell membrane protein is involved in asymmetrical cell division and cell polarization processes as a member of a multi-protein complex. The protein also has a role in the epithelial-to-mesenchymal transition (EMT) that characterizes the invasive phenotype associated with metastatic carcinomas. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Other Notes	Small volumes of PARD6A 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 PARD6A purchase	MBS1422679 is a recombinant protein targeting PARD6A. Also known as Recombinant Human Partitioning defective 6 homolog alpha (PARD6A). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PARD6A. It may not necessarily be applicable to this product.

NCBI GI #	82659097
NCBI GeneID	50855
NCBI Accession #	NP_001032358.1
UniProt Primary Accession #	Q9NPB6
UniProt Secondary Accession #	O14911; Q9NPJ7
UniProt Related Accession #	Q9NPB6
GenBank Nucleotide #	NM_001037281.1
NCBI Official Full Name	partitioning defective 6 homolog alpha isoform 2
NCBI Official Synonym Full Names	par-6 family cell polarity regulator alpha
NCBI Official Symbol	PARD6A
NCBI Official Synonym Symbols	PAR6; PAR6C; TAX40; PAR-6A; TIP-40; PAR6alpha
UniProt Protein Name	Partitioning defective 6 homolog alpha
UniProt Synonym Protein Names	PAR6C; Tax interaction protein 40; TIP-40
Protein Family	Partitioning defective
UniProt Gene Name	PARD6A
UniProt Synonym Gene Names	PAR6A; PAR-6; PAR-6 alpha; PAR-6A; TIP-40
NCBI Protein Information	partitioning defective 6 homolog alpha
NCBI Summary for PARD6A	This gene is a member of the PAR6 family and encodes a protein with a PSD95/Discs-large/ZO1 (PDZ) domain and a semi-Cdc42/Rac interactive binding (CRIB) domain. This cell membrane protein is involved in asymmetrical cell division and cell polarization processes as a member of a multi-protein complex. The protein also has a role in the epithelial-to-mesenchymal transition (EMT) that characterizes the invasive phenotype associated with metastatic carcinomas. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for PARD6A	Adapter protein involved in asymmetrical cell division and cell polarization processes. Probably involved in the formation of epithelial tight junctions. Association with PARD3 may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly. The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (PubMed:10873802). Regulates centrosome organization and function. Essential for the centrosomal recruitment of key proteins that control centrosomal microtubule organization (PubMed:20719959).
Research Articles on PARD6A	**1.** Shp2 promotes metastasis of prostate cancer by attenuating the PAR3/PAR6/aPKC polarity protein complex and enhancing epithelial-to-mesenchymal transition
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