

Mitochondrial cardiolipin hydrolase Recombinant Protein | PLD6 recombinant protein

Recombinant Human Mitochondrial cardiolipin hydrolase

CATALOG # AAA116771	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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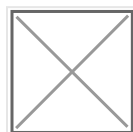
PRODUCT SYNONYMS

Mitochondrial cardiolipin hydrolase; Recombinant Human Mitochondrial cardiolipin hydrolase; Choline phosphatase 6; Mitochondrial phospholipase; MitoPLD; Phosphatidylcholine-hydrolyzing phospholipase D6; Phospholipase D6; PLD 6; Protein zucchini homolog; PLD6 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-252. Full Length
Sequence	MGRLSWQVAA AAAGVLALTL EALPWVLRWL RSRRRRPRRE ALFFPSQVTC TEALLRAPGA ELAELPEGCP CGLPHGESAL SRLLRALLAA RASLDLCLFA FSSPQLGRAV QLLHQRGVRV RVVTDCDYMA LNSQIGLLR KAGIQVRHDQ DPGYMHHKFA IVDKRVLTG SLNWTTQAIQ NNRENVLITE DDEYVRLFLE EFERIWEQFN PTKYTFFPPK KSHGSCAPPV SRAGGRLLSW HRTCGTSSES QT
Species	Homo sapiens (Human)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PLD6 recombinant protein	Regulates mitochondrial shape through facilitating mitochondrial fusion. During spermatogenesis, plays a critical role in PIWI-interacting RNA (piRNA) biogenesis (By similarity). piRNAs provide essential protection against the activity of mobile genetic elements. piRNA-mediated transposon silencing is thus critical for maintaining genome stability, in particular in germline cells when transposons are mobilized as a consequence of wide-spread genomic demethylation. Has been shown to be a backbone-non-specific, single strand-specific nuclease, cleaving either RNA or DNA substrates with similar affinity (By similarity). Produces 5' phosphate and 3' hydroxyl termini, suggesting it could directly participate in the processing of primary piRNA transcripts (By similarity). Has been proposed to act as a cardiolipin hydrolase to generate phosphatidic acid at mitochondrial surface. Although it cannot be excluded that it can act as a phospholipase in some circumstances, it should be noted that cardiolipin hydrolase activity is either undetectable in vitro, or very low (PubMed:21397848). In addition, cardiolipin is almost exclusively found on the inner mitochondrial membrane, while PLD6 localizes to the outer mitochondrial membrane, facing the cytosol.
Product Categories/Family for PLD6 recombinant protein	Epigenetics and Nuclear Signaling

References	"A common lipid links Mfn-mediated mitochondrial fusion and SNARE-regulated exocytosis." Choi S.Y., Huang P., Jenkins G.M., Chan D.C., Schiller J., Frohman M.A. Nat. Cell Biol. 8:1255-1262(2006)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	270265812
NCBI GeneID	201164
NCBI Accession #	NP_849158.2
NCBI GenBank Nucleotide #	NM_178836.3
UniProt Accession #	Q8N2A8; Q8N5Y1
Molecular Weight	44.3 kDa
NCBI Official Full Name	mitochondrial cardiolipin hydrolase
NCBI Official Synonym Full Names	phospholipase D family member 6
NCBI Official Symbol	PLD6
NCBI Official Synonym Symbols	ZUC
NCBI Protein Information	mitochondrial cardiolipin hydrolase
UniProt Protein Name	Mitochondrial cardiolipin hydrolase
UniProt Gene Name	PLD6
UniProt Synonym Gene Names	PLD 6
UniProt Entry Name	PLD6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.