

1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1 Recombinant Protein | PLCZ1 recombinant protein

Recombinant Human 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1

CATALOG # AAA117544	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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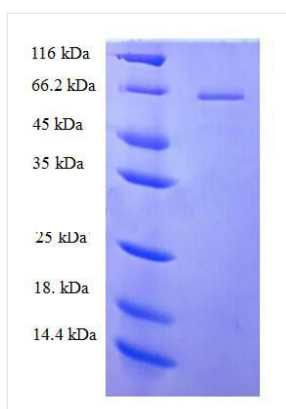
PRODUCT SYNONYMS

1-phosphatidylinositol 4; 5-bisphosphate phosphodiesterase zeta-1; Recombinant Human 1-phosphatidylinositol 4; Phosphoinositide phospholipase C-zeta-1; Phospholipase C-zeta-11; PLCZ1 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	1-415aa; Full length of isoform 2
Sequence	MEMRWFLSKI QDDFRGGKIN LEKTQRLEK LDIRCSYIHV KQIFKTSYDYP VVLSLENHCS TAQQEVMADN LQATFGESLL SDMLDDFPDT LPSPEALKFK ILVKNKKIGT LKETHERKGS DKRGDNQDKE TGVKKLPGVM LFKKKKTRKL KIALALSDLV IYTKAEKFKS FQHSRLYQQF NENNSIGETQ ARKLSKLRVH EFIFHTRKFI TRIYPKATRA DSSNFPQEF WNIGCQMVVAL NFQTPGLPMD LQNGKFLDNG GSGYILKPHF LRESKSYFNP SNIKEGMPIT LTIRLISGIQ LPLTHSSSNK GDSLVIIIEVF GVPNDQMKQQ TRVIKKNAFS PRWNETFTFI IHVPELALIR FVVEGQGLIA GNEFLGQYTL PLLCMNKG YR RIPLFSRMGE SLEPASLFVY VWYVR
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 PLCZ1 recombinant protein	The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. In vitro, hydrolyzes PtdIns(4,5)P2 in a Ca2+-dependent manner. Triggers intracellular Ca2+ oscillations in oocytes solely during M phase and is involved in inducing oocyte activation and initiating embryonic development up to the blastocyst stage. Is therefore a strong candidate for the egg-activating soluble sperm factor that is transferred from the sperm into the egg cytoplasm following gamete membrane fusion. May exert an inhibitory effect on phospholipase-C-coupled processes that depend on calcium ions and protein kinase C, including CFTR trafficking and function.
Product Categories/Family for PLCZ1 recombinant protein	Cancer
References	Sperm phospholipase Czeta from humans and cynomolgus monkeys triggers Ca2+ oscillations, activation and development of mouse oocytes.Cox L.J., Larman M.G., Saunders C.M., Hashimoto K., Swann K., Lai F.A.Reproduction 124:611-623(2002) Rescue of defective pancreatic secretion in cystic-fibrosis cells by suppression of a novel isoform of phospholipase C.Zhu H., Zhu J.X., Lo P.S., Li J., Leung K.M., Rowlands D.K., Tsang L.L., Yu M.K., Jiang J.L., Lam S.Y., Chung Y.W., Zhou Z., Sha J., Chang Chan H.Lancet 362:2059-2065(2003) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) Phospholipase Czeta causes Ca2+ oscillations and parthenogenetic activation of human oocytes.Rogers N.T., Hobson E., Pickering S., Lai F.A., Braude P., Swann K.Reproduction 128:697-702(2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	25188201
NCBI GeneID	89869
NCBI Accession #	NP_149114.2
NCBI GenBank Nucleotide #	NM_033123.3
UniProt Accession #	Q86YW0; Q08AQ7; Q96J70
Molecular Weight	64.5 kDa
NCBI Official Full Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1
NCBI Official Synonym Full Names	phospholipase C zeta 1
NCBI Official Symbol	PLCZ1
NCBI Official Synonym Symbols	PLCzeta; NYD-SP27; PLC-zeta-1
NCBI Protein Information	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1
UniProt Protein Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1
UniProt Gene Name	PLCZ1

UniProt Synonym Gene Names	PLC-zeta-1
UniProt Entry Name	PLCZ1_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.

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Online datasheet: <https://www.aaabiotech.com/plcz1-recombinant-protein-e-coli/117544>