

## Recombinant Human PLCZ1 protein, His/sumo-tagged

Cat. No. PLCZ1-137H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PLCZ1(1-415aa) fused with His/sumotag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-415aa
<b>Description</b>	<p>The protein encoded by this gene is a member of the phosphoinositide-specific phospholipase C family. Members in this family, classified into six isotypes that are tissue- and organ-specific, hydrolyze phosphatidylinositol 4,5-bisphosphate just before the phosphate group to yield diacylglycerol and inositol 1,4,5-trisphosphate. This protein localizes to the acrosome in spermatozoa and elicits Ca(2+) oscillations and egg activation during fertilization that leads to early embryonic development. Alternative splicing results in multiple transcript variants.</p>
<b>Form</b>	Tris-based buffer,50% glycerol
<b>AA Sequence</b>	<p>MEMRWFLSKIQDDFRGGKINLEKTQRLLLEKLDIRCSYIHVKQIFKTSYDYPVVLLENH            CSTAQQEVMADNLQATF GESLLSDMLDDFPDTPSPPEALKFKILVKNKKIGTLKETH            ERKGS DKR GDNQDKETGVKKLPGVMLFKKKKTRKL KIALALSDLVIYTKAEKFKSFQ            HSRLYQQFNENNSIGETQARKLSKLRVHEFIFHTRKFITRIYPKATRADSSNF NPQEF            WNIGCQMVALNFQTPGLPMDLQNGKFLDNGGSGYILKPHFLRESKSYFNPSNIKEG            MPITLTIRLISGIQ LPLTHSSSNKGDLSLVIIIEVFGVPNDQMKQQTRVIKKNAPSPRWNE</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TFTFIIHVPELALIRFVVEGQGLIAGNEFL GQYTLPLLCMNKGYRRIPLFSRMGESLEP  
ASLFVYVWYVR

**Purity** >90% ( SDS-PAGE )

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.

## GENE INFORMATION

**Gene Name** [PLCZ1 phospholipase C, zeta 1 \[ Homo sapiens \]](#)

**Official Symbol** [PLCZ1](#)

**Synonyms**

PLCZ1; phospholipase C, zeta 1; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1; NYD SP27; PLCzeta; PLC-zeta-1; phospholipase C-zeta-1; PI-phospholipase C zeta 1; testis-development protein NYD-SP27; testis-development related NYD-SP27; phosphoinositide phospholipase C-zeta-1; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase zeta-1; NYD-SP27; MGC149685;

**Gene ID** [89869](#)

**mRNA Refseq** [NM\\_033123](#)

**Protein Refseq** [NP\\_149114](#)

**MIM** [608075](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>UniProt ID</b>	Q86YW0
<b>Chromosome Location</b>	12p13.31
<b>Pathway</b>	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol-5-phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, PI=>
<b>Function</b>	calcium ion binding; hydrolase activity; phosphatidylinositol phospholipase C activity; signal transducer activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA