

Recombinant Mouse Plce1 Protein, Myc/DDK-tagged

Cat. No. Plce1-4916M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phospholipase C, epsilon 1 (Plce1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. PLCE1 is a bifunctional enzyme which also regulates small GTPases of the Ras superfamily through its Ras guanine-exchange factor (RasGEF) activity. As an effector of heterotrimeric and small G-protein, it may play a role in cell survival, cell growth, actin organization and T-cell activation. In podocytes, is involved in the regulation of lamellipodia formation. Acts downstream of AVIL to allow ARP2/3 complex assembly.
Molecular Mass	255 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Plce1 phospholipase C, epsilon 1 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Plce1](#)

Synonyms [Plce1](#); phospholipase C, epsilon 1; PL; Plce; mKIAA1516; PLCepsilon; 4933403A21Rik; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase epsilon-1; PLC-epsilon-1; phosphoinositide phospholipase C-epsilon-1; EC 3.1.4.11

Gene ID [74055](#)

mRNA Refseq [NM_019588](#)

Protein Refseq [NP_062534](#)

UniProt ID [Q8K4S1](#)

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