

Recombinant Mouse Plcd4 Protein, Myc/DDK-tagged

Cat. No. Plcd4-4915M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phospholipase C, delta 4 (Plcd4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP2) to generate 2 second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). DAG mediates the activation of protein kinase C (PKC), while IP3 releases Ca ²⁺ from intracellular stores. Required for acrosome reaction in sperm during fertilization, probably by acting as an important enzyme for intracellular Ca ²⁺ mobilization in the zona pellucida-induced acrosome reaction. May play a role in cell growth. Modulates the liver regeneration in cooperation with nuclear PKC. Overexpression up-regulates the Erk signaling pathway and proliferation.
Molecular Mass	92.7 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.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Plcd4 phospholipase C, delta 4 [Mus musculus (house mouse)]
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Official Symbol	Plcd4
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Synonyms	PLCD4; phospholipase C, delta 4; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-4; PLC-delta-4; phospholipase C-delta-4; phosphoinositide phospholipase C-delta-4; 4921507K24Rik
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Gene ID	18802
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mRNA Refseq	NM_148937
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Protein Refseq	NP_683739
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UniProt ID	Q8K3R3
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