

Recombinant Human PLCE1 protein, MYC/DDK-tagged

Cat. No. PLCE1-356H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLCE1 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes a phospholipase enzyme that catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate to generate two second messengers: inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG). These second messengers subsequently regulate various processes affecting cell growth, differentiation, and gene expression. This enzyme is regulated by small monomeric GTPases of the Ras and Rho families and by heterotrimeric G proteins. In addition to its phospholipase C catalytic activity, this enzyme has an N-terminal domain with guanine nucleotide exchange (GEF) activity. Mutations in this gene cause early-onset nephrotic syndrome; characterized by proteinuria, edema, and diffuse mesangial sclerosis or focal and segmental glomerulosclerosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	258.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name	PLCE1 phospholipase C, epsilon 1 [Homo sapiens]
Official Symbol	PLCE1
Synonyms	PLCE; PPLC; NPHS3; PLC-epsilon-1; pancreas-enriched phospholipase C; phosphoinositide phospholipase C-epsilon-1; phosphoinositide-specific phospholipase C epsilon-1
Gene ID	51196
mRNA Refseq	NM_016341
Protein Refseq	NP_057425
MIM	608414
UniProt ID	Q9P212
Chromosome Location	10q23
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; D-myo-inositol-5-phosphate metabolism, organism-specific biosystem
Function	Ras GTPase binding; enzyme binding; phospholipase C activity

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