

Recombinant Human PLCE1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLCE1-2513H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLCE1 MS Standard C13 and N15-labeled recombinant protein (NP_057425) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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.
Molecular Mass	259.2 kDa
AA Sequence	MTSEEMTASVLIPVTQRKVVSQAQSAADESSEKVSDINISKAHTVRRSGETSHTISQLN KLKEEPSGSNLPKILSIAREKIVSDENSNEKCWEKIMPDSAKNLNINCNNILRNHQHG LPQRQFYEMYNSVAEEDLCLETGIPSPLERKVFPGIQLELDRPSMGISPLGNQSVIIE

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TGRAHPDSRRVHFHFHYEVDRRMSDTFCTLSENILDDCGNCVPLPGGEEKQKKNY
VAYTCKLMELAKNCDNKNEQLQCDHCDTLNDKYFCFECSCEKVDMMVYSGDSFCRK
DFTDSQAAKTFLSHFEDFPDNCDDVEEDAFKSKKERSTLLVRRFCKNDREVKKSVY
TGTRAIVRTLPSGHIGLTAWSYIDQKRNGPLLPCGRVMEPPSTVEIRQDGSQRLSEA
QWYPIYNAVRREETENTVGSLLHFLTCLPASETAHGRISVGPCLKQCVRDTVCEYRA
TLQRTSISQYITGSLLEATTSLGARSGLLSTFGGSTGRMMLKERQPGPSVANSNALP
SSSAGISKELIDLQPLIQFPEEVASILMEQEQTIRRVLPVDYLCFLTRDLGTPECQSS
LPCLKASISASILTQNGEHNALDLMVMRFNEVSSWVTWLITAGSMEEKREVFSYLV
HVAKCCWNMGNYNAVMEFLAGLSRKVLKMWQFMDQSDIETMRSLKDAMAQHE
SCEYRKVVTRALHIPGCKVVPFCGVFLKELCEVLDGASGLMKLCPRYNSQEETLEFV
ADYSGQDNFLQRVGQNGLNSEKESTVNSIFQVIRSCNRSLETDEEDSPSEGNSSR
KSSLKDKSRWQFIIGDLLSDNDIFEQSKKEYDSHGSEDSQKAFDHGTTELIPWYVLSIQ
ADVHQFLLQGATVIHYDQDTHLSARCFLQLQPDNSTLTWVKPTTASPASSKAKLGV
NNTAEPGKFPLLGNAGLSSLTEGVLDLFAVKAVYMGHPGIDIHTVCVQNKLGSMFLS
ETGVTLTYGLQTTDNRLHFVAPKHTAKMLFSGLLELTRAVRKMRKFPDQRQQWLR
KQYVSLYQEDGRYEGPTLAHAVELFGGRRWSARNPSPGTSAKNAEKNMQRNNTL
GISTTKKKKKILMRGESGEVTDDEMATRKAKMHKECRSRSGSDPDINEQEESSEVN
AIANPPNPLPSRRAHSLTTAGSPNLAAGTSSPIRPVSSPVLSSSNKSPSSAWSSSSW
HGRIKGGMKGFQSFMVSDSNMSFVEFVELFKSFSVRSRKDLKDLFDVYAVPCNRS
GSESAPLYTNLTIDENTSDLQPDLLTRNVSDLGLFIKSKQQLSDNQQRQISDAIAAAS
IVTNGTGIESTSLGIFGVGILQLNDFLVNCQGEHCTYDEILSIIQKFEPSISMCHQGLMS
FEGFARFLMDKENFASKNDESENKELQLPLSYYYIESSHNTYLTGHQLKGESSVE
LYSQVLLQGCRSVELDCWDGDDGMPPIYHGHTLTTKIPFKEVVEAIDRSFINSDLPIII
SIENHCSLPQQRKMAEIFKTVFGEKLVTKFLFETDFSDDPMLPSPDQLRKKVLLKNKK
LKAHQTPVDILKQKAHQLASMVQVAYNGGNANPRPANNEEEDEEYDYDYESL
SDDNIEDRPENKSCNDKLQFEYNEEIPKRIKKADNSACNKGKVYDMELGEEFYLDQ
NKKESRQIAPELSDLVIYCQAVKFPGLSTLNASGSSRGKERKSRKSIFGNPNPRMSP
GETASFNKTSGKSSCEGIRQTWEESSSPLNPTTSLSAIIRTPKCYHISSLNENAAKRL
CRRYSQKLTQHTACQLLRTPAATRIDSNNPNPLMFWLHGIQLVALNYQTDDLPLHL
NAAMFEANGGCGYVLKPPVLWDKNCPMYQKFSPLERDLDSMDPAVYSLTIVSGQN

VCPSNSMGSPCIEVDVLGMPLDSCHFRTKPIHRNTLNPMWNEQFLFHVHFEDLVFL
RFAVVENNSSAVTAQRIIPLKALKRGYRHLQLRNLHNEVLEISSLFINSRRMEENSSG
NTMSASSMFNTEERKCLQTHRVTVHGVPGPEPFTVFTINGGKAKQLLQQILTNEQ
DIKPVTDDYFLMEEKYFISKEKNECRKQPFQRAIGPEEEIMQILSSWFPEEGYMGRIV
LKTQQENLEEKNIQDDKEVILSSEESFFVQVHDVSPEQPRTVIKAPRVSTAQDVIQ
QTLCKAKYSYSILSNPNPSDYVLLLEEVVKDTTNKKTTPKSSQRVLLDQECVFQAQS
KWKGAGKFIKLKEQVQASREDKKKGISFASELKKLTSTKQPRGLTSPSQLLTSESI
QTKEEKPVGGLSSSDTMDYRQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PLCE1 phospholipase C epsilon 1 [Homo sapiens (human)]
Official Symbol	PLCE1
Synonyms	PLCE1; phospholipase C epsilon 1; PLCE; PPLC; NPHS3; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase epsilon-1; PLC-epsilon-1; pancreas-enriched phospholipase C; phosphoinositide phospholipase C; phosphoinositide phospholipase C-epsilon-1; phosphoinositide-specific phospholipase C epsilon-1; EC 3.1.4.11

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Gene ID	51196
mRNA Refseq	NM_016341
Protein Refseq	NP_057425
MIM	608414
UniProt ID	Q9P212
SDS-PAGE	