

Product datasheet for **TP313202L**

Phospholipase C epsilon 1 (PLCE1) (NM_016341) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens phospholipase C, epsilon 1 (PLCE1), 1 mg
Species:	Human
Expression Host:	HEK293T



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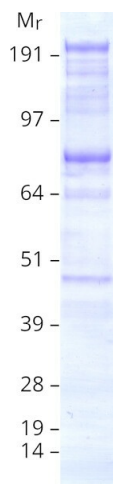
Expression cDNA >RC213202 representing NM_016341
Clone or AA Red=Cloning site Green=Tags(s)
Sequence:

MTSEEMTASVLPVTQRKVVSAQSAADESSEKVS DINISKAHTVRRSGETSHTISQLNKLKEEPSGSNLP
 KILSIAREKIVSDENSNEKCKWEKIMPDSAKNLNINCNNILRNHQHGLPQRQFYEMYNSVAEEDLCLETGI
 PSPLERKVFPGIQLELDRPSMGISPLGNQSVIIETGRAHPDSRRRAVFFHFEVDRRMSDTFCTLSENLIL
 DDCGNCVPLPGGEEKQKKNYVAYTCKLMELAKNCDNKNEQLQCDHCDTLNDKYFCFEGSCEKVDMMVYSGD
 SFCRKDFTD SQA AKTFLSHFEDFPDNCDDVEEDAFKSKKERSTLLVRRFCKNDREVKKSVYTGTRAIVRT
 LPSGHIGLTAWSYIDQKRNGPLLPCGRVMEPPSTVEIRQDGSQRLSEAQWYPIYNAVRREETENTVGSLL
 HFLTKLPASETAHGRISVGPCCLKQCVRDVTCEYRATLQRTSISQYITGSLL EATTS LGARSGLLSTFGGS
 TGRMMLKERQPGPSVANSNALPSSSAGISKELIDLQPLIQFP EEVASILMEQEQT IYRRVLPVDYLCFLT
 RDLGTPECQSSLPCLKASISASILT TQNGEHNAL EDLVMRFNEVSSWVTWLILTAGSMEEKREVF SYLVH
 VAKCCWNMGNYNAVMEFLAGLRSRKVLKMWQFMDQSDIETMRS LKDAMAQHESSEYRKVWTRALHIPGC
 KVVPF CGVFLKELCEVLDGASGLMKLCPRYNSQEETLEFVADYSGQDNFLQRV GQNGLKNSEKESTVNSI
 FQVIRSCNRSLETDEEDSPSEGNSSR KSS LKDKSRWQFIIGDLLSDNDIFEQSKEYDSHGSEDSQKAFD
 HGTELIPWYVLSIQADVHQFLLQGATVIHYDQDTHLSARCF LQLQPDNSTL TWVKPTTASPASSKAKLGV
 LNNTAEPGKFP LLGNAGLSSLTEGVLDLFAVKAVYMGHPGID IHTVCVQNKLGSMFLSETGV TLLYGLQT
 TDNRLLHFVAPKHTAKMLFSGLLEL TRAVRKMRFDPDRQ RQWLKQYVSLYQEDGRYEGPTLAHAVELFG
 GRRWSARNPSPGTSAKNAEKP NMQRNNTLGISTTKKKKILMRGESGEVTDDEMATRKAKMHKECRSRSG
 SDPQDINEQE ESEVNAIANPPNPLPSRRAHSLTTAGSPNLAAGTSSPIRPVSSPVLSSSNKSPSSAWSSS
 SWHGRIKGGMKGFQSFMVSDSNMSFVEFVELFKSFSVRSRKDLKDLFDVYAVPCNRS GSESAPLYTNLTI
 DENTS DLQPDLLTRNVSDLGLFIKSKQQLSDNQRQISDAIAAASIVTNGTGIESTSLGIFGVGILQLN
 DFLVNCQGEHCTYDEILSIIQKFEP SISMCHQGLMSFEGFARFLMDKENFASKNDESQENIKELQLPLSY
 YIESSHNTYL TGHQLKGESSVELYSQVLLQGCRSVELDCWDGDDGMPIIYHGHTLTTKIPFKEVVEAID
 RSAFINS DLPIII SIENHCSLPQQRKMAEIFKTVFGEKLVTKFLFETDFSDDPMLPSPDQLRKKVLLKNK
 KLKAHQTPVDILKQKAHQ LASMQVQAYNGGNANPRPANNEEEDEEYDYDYESLSDDNILEDRPENKS
 CNDKLQFEYNEEIPKRIKKADNSACNKGKVDME LGEEFYLDQNKKESRQIAP ELSDLVIYCQAVKFPGL
 STLNASGSSRGKERKSRKSIFGNPGRMSPGETASFNKTSGKSSCEGIRQTWE ESSSPLNPTTSLSAIIR
 TPKCYHISSLNENAAKRLCRRYSQKLTQHTACQLLR TYPAATRIDSNNPNPLMFWLHGIQLVALNYQTDD
 LPLHLNAAMFEANGGCGYVLKPPVLWDKNC PMYQKFSPLERDLDSMDPAVYSLTIVSGQNVCPNSMGS
 CIEVDVLGMPLDSCHFRTKPIHRNTLNPMWNEQFLFHVHFEDLVFLRF AVENNSSAVTAQR IIPLKALK
 RGYRHLQLRNLHNEVLEISLFINSRMEENSSGNTMSASSMFNTEERKCLQTHRVTVHGVP GPEPFTVF
 TINGGTKAKQLLQILTNEQDIKPVTTDYFLMEEKYFISKEKNECRKQPFQRAIGPEEEIMQILSSWFPE
 EGYMGRIVLKTQQENLEEK NIVQDDKEVILSSEEEFFVQVHDVSPEQPRTVIKAPRVSTAQDVIQQTLC
 KAKYSYSILSNPNPSDYVLL EEVKDTTNKKTTPKSSQRVLLDQECVFQAQSKWKGAGKFKLKEQVQ
 ASREDKKKGISFASLKKLTKSTKQPRGLTSPS QLLTSESIQTKEEKPVGGLSSSDTMDYRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 258.5 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_057425
Locus ID:	51196
UniProt ID:	Q9P212
RefSeq Size:	7992
Cytogenetics:	10q23.33
RefSeq ORF:	6906
Synonyms:	NPHS3; PLCE; PPLC
Summary:	<p>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.[provided by RefSeq, Sep 2009]</p>
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Product images:

Coomassie blue staining of purified PLCE1 protein (Cat# [TP313202]). The protein was produced from HEK293T cells transfected with PLCE1 cDNA clone (Cat# [RC213202]) using MegaTran 2.0 (Cat# [TT210002]).