

Product datasheet for **TP316150M**

Phospholipase C beta 1 (PLCB1) (NM_182734) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phospholipase C, beta 1 (phosphoinositide-specific) (PLCB1), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216150 representing NM_182734 Red =Cloning site Green =Tags(s)

MAGAQPVGHALQLKPVCSVDSLKKGTKFVKWDDSTIVTPIILRTDPQGGFFFWTDQNKETELLDLSLVK
DARCGRHAKAPKDPKLRRELLDVGNIQRLEQRMITVVYGPDLVNISHLNLVAFQEEVAKWTNEVFSLATN
LLAQNMRSRDAFLEKAYTKLKLQVTEGRIPLKNIYRFLSADRKRVTALEACSLPSSRND SIPQEDFTPE
VYRVFLNLCPRPEIDNIFSEFGAKSKPYLTVDQMMDFINLKQRDPRLNEILYPPPKQEQQVVLIEKYEP
NNSLARKGQISVDGFMRYLSGEENGWVSPEKLDLNEEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYR
QVLLSGCRCVELDCWKGRTAESEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHVDSPKQ
QAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDL MYKILVKNKKKSHKSSESGGKKLSEQASNTY
SDSSSMFEPSSPGAGEADTESDDDDDDDDCKKSSMDEGTAGSEAMATEEMS NLVNIQPVKFESFEISKK
RNKSFEMSSFVETKGLEQLTKSPVEFVEYNKMQLSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTM
LAMQINMGMYEYNGKSGYRLKPEFMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYYEVD
MFGLPVDTRRKAFKTKTSQGNVNPVWEEPIVFKKVLP LTLACLRIAVYEEGGKFIGHRILPVQAIRPG
YHYICLRNERNQPLTLPVAVFYIEVKDYVPD TYADVIEALS NPIRYVNLMEQRAKQLAALTLEDEEEVKK
EADPGETPSEAPSEARTTPAENGVNHTTTLTPKPPSQALHSQPAPGSVKAPAKTEDLIQSVLTEVEAQTI
EELKQKQSFVKLQKKHYKEMKDLVKRHHKTTDLIKEHTTKYNEIQNDYLRRAALEKS AKKDKSKKSEP
SSPDHGSSTIEQDLAALDAEMTQKLIDLKDKQQQLLNLRQEYQYSEKYQKREHIKLLIQKLT DVAEECQ
NNQLKKLKEICEKEKELKKKMDKKRQEKITEAKSKDKSQMEEKTEMIRSYIQEVVQYIKRLEEAQSKR
QEKLVEKHKEIRQQILDEKPKGEGSSSFLSETCHEDPSVSPNFTPPNPQALKW

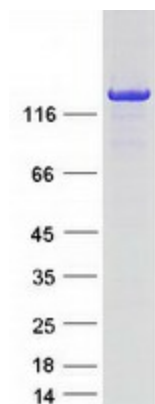
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	133.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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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_877398
Locus ID:	23236
UniProt ID:	Q9NQ66
RefSeq Size:	6823
Cytogenetics:	20p12.3
RefSeq ORF:	3519
Synonyms:	DEE12; EIEE12; PI-PLC; PLC-154; PLC-beta-1; PLC-I; PLC154; PLCB1A; PLCB1B
Summary:	The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of many extracellular signals. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway, Chemokine signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Inositol phosphate metabolism, Long-term depression, Long-term potentiation, Melanogenesis, Metabolic pathways, Phosphatidylinositol signaling system, Vascular smooth muscle contraction, Wnt signaling pathway

Product images:

Coomassie blue staining of purified PLCB1 protein (Cat# [TP316150]). The protein was produced from HEK293T cells transfected with PLCB1 cDNA clone (Cat# [RC216150]) using MegaTran 2.0 (Cat# [TT210002]).