

## Product datasheet for TP310197

### Phospholipase C beta 1 (PLCB1) (NM\_015192) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phospholipase C, beta 1 (phosphoinositide-specific) (PLCB1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210197 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAGAQPGVHALQLKPVCSDSLKKGTKFVKWDDDDSTIVTPIILRTDPQGFFFYWTDQNKETELLDLSLVK  
DARCGRHAKAPKDPKLELLDVGNIQRLEQRMITVYGPDLVNIHNLVAFQEEVAKEWNTNEVFLATN  
LLAQNMSRDAFLEKAYTKLKLQVTPGRIPLKNIYRFLSADRKRVTALEACSLPSSRND SIPQEDFTPE  
VYRVFLNNLCPRPEIDNIFSEFGAKSKPYLTVDQMMDFINLKQRDPRLNEILYPPPKQEQQVVLIEKYEP  
NNSLARKGQISVDGFMRYLSGEENGWVSPEKLDL NEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMY  
R  
QVLLSGCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIECAFKTSPFPILLSFENHVDSPKQ  
QAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDL MYKILVKNKKKSHKSSSESGSKKKLSEQASNTY  
SDSSSMFEPSSPGAGEADTESDDDDDDDDCKKSSMDEGTAGSEAMATEEMS NLVNYIQPVKFESFEISKK  
RNKSFEMSSFVETKGLEQLTKSPVEFVEYNKMQLSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTM  
D  
LAMQINMGMYEYNGKSGYRLKPEFMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTVEVD  
MFGLPVDTRRKAFKTKTSQGNVNPVWEEPIVFKKVLPTLA CLRIAVYEEGGKFIGHRILPVQAIRPG  
YHYICLRNERNQPLTLPVAVFYIEVKDYVPDYADVIEALS NPIRYVNLMEQRAKQLAALTLEDEEEVKK  
EADPGETPSEAPSEARTTPAENGVNHTTTLTPKPPSQALHSQPAPGSVKAPAKTEDLIQSVL TEVEAQTI  
EELKQKSFVKLQKKHYKEMKDLVKRHHKTTDLIKEHTTKYNEIQNDYLRRRAALEKSAKKDSKKKSE  
SSPDHGSSTIEQDLAALDAEMTQKLIDLKDKQQQQLLNLRQEYQYSEKYQKREHIKLLIQKLT DVAEECQ  
NNQLKKLKEICEKEKKELKKKMDKKRQEKITEAKSKDKSQMEEKTEMIRSYIQEVVQYIKRLEEAQSKR  
QEKLVEKHKEIRQQILDEKPKLQVELEQEYQDKFKR LPLEILEFVQEAMKGISEDSNHGSAPLSLSSDP  
GKVNHKTPSSEELGGDIPGKEFDTPL

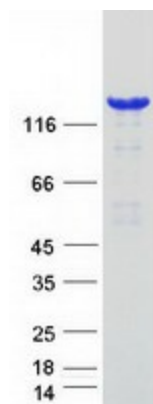
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	138.4 kDa



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<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_056007</a>
<b>Locus ID:</b>	23236
<b>UniProt ID:</b>	<a href="#">Q9NQ66</a>
<b>RefSeq Size:</b>	7103
<b>Cytogenetics:</b>	20p12.3
<b>RefSeq ORF:</b>	3648
<b>Synonyms:</b>	DEE12; EIEE12; PI-PLC; PLC-154; PLC-beta-1; PLC-I; PLC154; PLCB1A; PLCB1B
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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# TP310197). The protein was produced from HEK293T cells transfected with PLCB1 cDNA clone (Cat# [RC210197]) using MegaTran 2.0 (Cat# [TT210002]).