

## Product datasheet for PH316150

### Phospholipase C beta 1 (PLCB1) (NM\_182734) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PLCB1 MS Standard C13 and N15-labeled recombinant protein (NP_877398)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216150
Predicted MW:	133.5 kDa
Protein Sequence:	>RC216150 representing NM_182734 Red=Cloning site Green=Tags(s)

MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDSTIVTPIILRTDPQGFFFYWTDQNKETELLDLSLVK  
DARCGRHAKAPKDPKLELLDVGNIQRMITVYVYGPDLVNIISHLNLVAFQEEVAKEWTEVFLATN  
LLAQNMSRDAFLEKAYTKLKLQVTPGRIPLKNIYRLFSAADRKRIVETALEACSLPSSRNDSIPQEDFTPE  
VYRVFLNLLCPRPEIDNIFSEFGAKSKPYLTVDQMDFINLKQRDPRLNEILYPPLKQEQQVQLIEKYEP  
NNSLARKGQISVDGFMRYLSGEENGVSPEKLDLNEDEMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYR  
QVLLSGCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHVDSPKQ  
QAKMAEYCRILFGDALLMEPLEKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSESGGKKLSEQASNTY  
SDSSSMFEPSSPGAGEADTESDDDDDDDDCKKSSMDEGTAGSEAMATEEMSNLVNYIQPVKFESFEISKK  
RNKSFEMSSFVETKGLEQLTKSPVEFVEYNKMLSRIPYKGTVDSSNYMPQLFWNAGCQMVALNFQTM  
LAMQINMGMYEYNGKSGYRLKPEFMRPDKHDFPFTEGIVDGIANTLSVKIISGQFLSDKKVGTYYEVD  
MFGPLVDTRRKAFTKTSQGNVNPVWEEPIVFKKVVLPPLACLRIAVYEEGGKFIGHRILPVQAIRPG  
YHYICLRNERNQPLTLPVAVVYIEVKDYVPDTPADVIEALSNPIRYVNLMEQRAKQALALTEDEEEVKK  
EADPGETPSEAPSEARTTPAENGVNHTTLPKPPSQALHSQPAPGSVKAPAKTEDLIQSVLTEVEAQT  
EELKQQKSFVKLQKKHYKEMKDLVKRHHKTTDLIKEHTTKYNEIQNDYLRRRAALEKSAKKDSKKKSEP  
SSPDHGSSTIEQDLAALDAEMTQKLDLKDQKQQLNLRQEQYYSEKYQKREHIKLLIQKLTQVAAECQ  
NNQLKLLKEICEKEKELKKKMDKKRQEKITEAKSKDKSQMEEETEMIRSYIQEVVYIKRLEEAQSKR  
QEKLVEKHKEIRQQILDEKPKGEGSSFLSETCHEDPSVSPNFTPPNPQALKW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

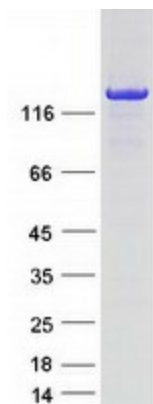
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



[View online »](#)

<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_877398</a>
<b>RefSeq Size:</b>	6823
<b>RefSeq ORF:</b>	3519
<b>Synonyms:</b>	DEE12; EIEE12; PI-PLC; PLC-154; PLC-beta-1; PLC-I; PLC154; PLCB1A; PLCB1B
<b>Locus ID:</b>	23236
<b>UniProt ID:</b>	<a href="#">Q9NQ66</a>
<b>Cytogenetics:</b>	20p12.3
<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# [TP316150]). The protein was produced from HEK293T cells transfected with PLCB1 cDNA clone (Cat# [RC216150]) using MegaTran 2.0 (Cat# [TT210002]).