

Datasheet for ABIN7565274

Phospholipase C beta 1 Protein (AA 1-1216) (His tag)



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Overview

Quantity:	1 mg
Target:	Phospholipase C beta 1 (PLCB1)
Protein Characteristics:	AA 1-1216
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Phospholipase C beta 1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Plcb1 Protein expressed in mammalian cells.
Sequence:	MAGAQPGVHA LQLKPVCVSD SLKKGTKFVK WDDDSTIVTP IILRTDPQGF FFYWTDQNKE TELLDLSLVK DARCGKHAKA PKDPKLELL DVGNIHLEQ RMITVVYGPD LVNISHLNLV AFQEEVAKEW TNEVFSLATN LLAQNMSRDA FLEKAYTKLK LQVTPEGRIP LKNIYRLFSA DRKRVETALE ACSLPSSRND SIPQEDFTPD VYRVFLNNLC PRPEIDNIFS EFGAKSKPYL TVDQMMDFIN LKQRDPRLNE ILYPPLKQEQ VQVLEIKYEP NSSLAKKGQM SVDGFMRYLS GEENGVSPE KLDLNEEDMSQ PLSHYFINSS HNTYLTAGQL AGNSSVEMYR QVLLSGCRCV ELDCWKGRTA EEEPVITHGF TMTTEISFKE VIEAIAECF KTSPFPILLS FENHVDSPKQ QAKMAEYCRL IFGDALLMEP LEKYPLESGV PLPSPMDLMY KILVKNKKKS HKSSEGSKK KLSEQASNTY SDSSSVFEPSPGAGEADTE SDDDDDDDDC KKSSMDEGTA GSEAMATEEM SNLVNYIQPV KFESFEISKK RNKSFEMSSF VETKGLEQLT KSPVEFVEYN KMQLSRIYPK GTRVDSSNYM PQLFWNAGCQ MVALNFQTVL LAMQINMGMY EYNGKSGYRL KPEFMRRPDK

HFDPFTEGIV DGIVANTLSV KIISGQFLSD KKVGTYYEVD MFGLPVDTRR KAFKTKTSQG
NAVNPVWEEE PIVFKKVLP SLACLRIIAY EEGGKFIGHR ILPVQAIRPG YHYICLRNER
NQPLTLPAVF VYIEVKDYVP DTYADVIEAL SNPIRYVNLM EQRAKQLAAL TLEDEEEVKK
EADPGETSSE APSETRTPA ENGVNHTASL APKPPSQAPH SQPAPGSVKA PAKTEDLIQS
VLTEVEAQTI EELKQKQSFV KLQKKHYKEM KDLVKRHHKK TTELIKEHTT KYNEIQNDYL
RRRAALEKSA KKDSKKKSEP SSPDHGSSAI EQDLAALDAE MTQKLIDLKD KQQQQLLNLR
QEQQYSEKYQ KREHIKLLIQ KLTDVAEECQ NNQLKKLKEI CEKEKKELKK KMDKKRQEKI
TEAKSKDKSQ MEEEEKTEMIR SYIQEVVQYI KRLEEAQSKR QEKLVEKHNE IRQQILDEKP
KLQTELEQY QDKFKRLPLE ILEFVQEAMK GKISEDNSHG SAPPASLASDA AKVNLKSPSS
EEIERENPGR EFDTPL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	Phospholipase C beta 1 (PLCB1)
Alternative Name:	Plcb1 (PLCB1 Products)
Background:	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1 (EC 3.1.4.11) (PLC-154)

Target Details

	(Phosphoinositide phospholipase C-beta-1) (Phospholipase C-beta-1) (PLC-beta-1),FUNCTION: Catalyzes the hydrolysis of 1-phosphatidylinositol 4,5-bisphosphate into diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) and mediates intracellular signaling downstream of G protein-coupled receptors (PubMed:27653213). Regulates the function of the endothelial barrier (PubMed:27653213). {ECO:0000269 PubMed:27653213, ECO:0000303 PubMed:27653213}.
Molecular Weight:	138.4 kDa
UniProt:	Q9Z1B3
Pathways:	WNT Signaling , AMPK Signaling , Thyroid Hormone Synthesis , Inositol Metabolic Process , Regulation of Muscle Cell Differentiation , Regulation of G-Protein Coupled Receptor Protein Signaling , Proton Transport , Skeletal Muscle Fiber Development , CXCR4-mediated Signaling Events , G-protein mediated Events

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months