Datasheet for ABIN7554993

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:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Phospholipase C beta 1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PLCB1 Protein expressed in mammalian cells.
Sequence:	MAGAQPGVHA LQLKPVCVSD SLKKGTKFVK WDDDSTIVTP IILRTDPQGF FFYWTDQNKE TELLDLSLVK DARCGRHAKA PKDPKLRELL DVGNIGRLEQ RMITVVYGPD LVNISHLNLV AFQEEVAKEW TNEVFSLATN LLAQNMSRDA FLEKAYTKLK LQVTPEGRIP LKNIYRLFSA DRKRVETALE ACSLPSSRND SIPQEDFTPE VYRVFLNNLC PRPEIDNIFS EFGAKSKPYL TVDQMMDFIN LKQRDPRLNE ILYPPLKQEQ VQVLIEKYEP NNSLARKGQI SVDGFMRYLS GEENGVVSPE KLDLNEDMSQ PLSHYFINSS HNTYLTAGQL AGNSSVEMYR QVLLSGCRCV ELDCWKGRTA EEEPVITHGF TMTTEISFKE VIEAIAECAF KTSPFPILLS FENHVDSPKQ QAKMAEYCRL IFGDALLMEP LEKYPLESGV PLPSPMDLMY KILVKNKKKS HKSSEGSGKK KLSEQASNTY SDSSSMFEPS SPGAGEADTE SDDDDDDDDC KKSSMDEGTA GSEAMATEEM SNLVNYIQPV KFESFEISKK RNKSFEMSSF VETKGLEQLT KSPVEFVEYN KMQLSRIYPK GTRVDSSNYM PQLFWNAGCQ MVALNFQTMD LAMQINMGMY EYNGKSGYRL KPEFMRRPDK HFDPFTEGIV DGIVANTLSV KIISGQFLSD KKVGTYVEVD MFGLPVDTRR KAFKTKTSQG

Product Details

	NAVNPVWEEE PIVFKKVVLP TLACLRIAVY EEGGKFIGHR ILPVQAIRPG YHYICLRNER NQPLTLPAVF VYIEVKDYVP DTYADVIEAL SNPIRYVNLM EQRAKQLAAL TLEDEEEVKK EADPGETPSE APSEARTTPA ENGVNHTTTL TPKPPSQALH SQPAPGSVKA PAKTEDLIQS VLTEVEAQTI EELKQQKSFV KLQKKHYKEM KDLVKRHHKK TTDLIKEHTT KYNEIQNDYL RRRAALEKSA KKDSKKKSEP SSPDHGSSTI EQDLAALDAE MTQKLIDLKD KQQQQLLNLR QEQYYSEKYQ KREHIKLLIQ KLTDVAEECQ NNQLKKLKEI CEKEKKELKK KMDKKRQEKI TEAKSKDKSQ MEEEKTEMIR SYIQEVVQYI KRLEEAQSKR QEKLVEKHKE IRQQILDEKP KLQVELEQEY QDKFKRLPLE ILEFVQEAMK GKISEDSNHG SAPLSLSSDP GKVNHKTPSS EELGGDIPGK 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	Phospholipase C beta 1 (PLCB1)
Alternative Name:	PLCB1 (PLCB1 Products)

Target Details

Background:	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1 (EC 3.1.4.11) (PLC-154) (Phosphoinositide phospholipase C-beta-1) (Phospholipase C-I) (PLC-I) (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:9188725). Regulates the function of the endothelial barrier. {ECO:0000250|UniProtKB:Q9Z1B3, ECO:0000269|PubMed:9188725}.
Molecular Weight:	138.6 kDa
UniProt:	Q9NQ66
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:	We expect the protein to work for functional studies. 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