

Datasheet for ABIN7555009

Phospholipase C gamma 2 Protein (PLCG2) (AA 1-1265) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Phospholipase C gamma 2 (PLCG2)
Protein Characteristics:	AA 1-1265
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Phospholipase C gamma 2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat PLCG2 Protein expressed in mammalian cells.
Sequence:	MSTTVNVDLS AEYEKSQIKR ALELGTVM TV FSFRKSTPER RTVQVIMETR QVAWSKTADK IEGFLDIMEI KEIRPGKNSK DFERAKAVRQ KEDCCFTILY GTQFVLSTLS LAADSKEDAV NWLSGLKILH QEAMNASTPT IESWLRKQI YSVDQTRRNS ISLRELKTI LPLNFKVSSA KFLKDKFVEI GAHKDELSFE QFHLFYKKLM FEQKSILDE FKKDSSVFIL GNTDRPDASA VYLHDFQRFL IHEQQEHWAQ DLNKVRERMT KFIDDTMRET AEPFLFVDEF LTYLFSRENS IWDEKYDAVD MQDMNNPLSH YWISSSHNTY LTGDQLRSES SPEAYIRCLR MGCRCIELDC WDGPDGKPMI YHGWTRTTKI KFDDVVQAIK DHAFVTSSFP VILSIEEHCS VEQQRHMAKA FKEVFGDLLL TKPTEASADQ LPSPSQLREK IIKHKKLGP RGDVDVNMED KKDEHKQQGE LYMWDSIDQK WTRHYCAIAD AKLSFSDDIE QTMEEEVPQD IPPTELHFGE KWFHKKVEKR TSAEKLLQEY CMETGGKDGT FLVRESETFP NDYTLSEFWS GRVQHCRIRS TMEGGTLKYY LTDNLTFSSI YALIQHYRET HLRCAEFELR LTDPVPNP NP HESKPWYYDS LSRGEAEDML

MRIPRDGAFL IRKREGSDSY AITFRARGKV KHCINRDGR HFVLGTSAYF ESLVELVSYY
EKHSLYRKMR LRYPVTPPELL ERYNMERDIN SLYDVSRMYV DPSEINPSMP QRTVKALYDY
KAKRSELSF CRGALIHNVS KEPGGWWKGD YGTRIQQYFP SNYVEDISTA DFEELEKQII
EDNPLGSLCR GILDINTYNV VKAPQGKNQK SFVFILEPKQ QGDPPVEFAT DRVEELFEWF
QSIREITWKI DTKENNMKYW EKNQSI AIEL SDLVVYCKPT SKTKDNLENP DFREIRSFVE
TKADSIIRQK PVDLLKYNQK GLTRVYPKGQ RVDSSNYDPF RLWLCGSQMV ALNFQTADKY
MQMNHAFSL NGRTGYVLQP ESMRTEKYDP MPPESQRKIL MTLTVKVLGA RHLPKLGRSI
ACPFVEVEIC GAEYDNNKFK TTVVNDNGLS PIWAPTQEKV TFEIYDPNLA FLRFVVEED
MFSDPNFLAH ATYPIKAVKS GFRSVPLKNG YSEDIELASL LVFCEMRPVL ESEEEYSSC
RQLRRRQEEL NNQLFLYDTH QNLRNANRDA LVKEFSVNEN QLQLYQECN KRLREKRVS
N SKFYS **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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

Phospholipase C gamma 2 (PLCG2)

Alternative Name:

PLCG2 (PLCG2 Products)

Target Details

Background:	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2 (EC 3.1.4.11) (Phosphoinositide phospholipase C-gamma-2) (Phospholipase C-IV) (PLC-IV) (Phospholipase C-gamma-2) (PLC-gamma-2),FUNCTION: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. It is a crucial enzyme in transmembrane signaling. {ECO:0000269 PubMed:23000145}.
Molecular Weight:	147.9 kDa
UniProt:	P16885
Pathways:	RTK Signaling , WNT Signaling , Fc-epsilon Receptor Signaling Pathway , Inositol Metabolic Process , Myometrial Relaxation and Contraction , Toll-Like Receptors Cascades , VEGF Signaling , BCR Signaling

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