

Datasheet for ABIN3136487

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



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	Phospholipase C gamma 2 (PLCG2)
Protein Characteristics:	AA 1-1265
Origin:	Mouse
Source:	Insect 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), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>MTTMVNVDTL PEYEQSIQKR ALELGTVM TV FNARKSTPER RTVQMIMETR QVAWSKTADK</p> <p>IEGFLDIMEI KEIRPGKNSK DFERAKAVRH KAECCTILY GTQFVLSTLS LATDSKEDAV</p> <p>KWLSGLKILH QEAMSASTPT MIESWLRKQI YSVDQTRRNS ISLRELKTL PLVNFKVSGI</p> <p>KFLKDKLVEI GAQKDELSFE QFHLFYKKLM FDQKSILDE FKKDSSVFIL GNTDRPDASA</p> <p>VYLQDFQRFL LHEQQELWAQ DLNKVRERMT KFIDDTMRET AEPFLFVDEF LTYLFSRENS</p> <p>IWDEKYDAVD MQDMNNPLSH YWISSSHNTY LTGDQLRSES STEAYIRCLR AGCRCIELDC</p> <p>WDGPDGKPII YHGWTRTTKI KFDDVVQAIR DHAFVTSSFP VILSIEEHCS VEQQRHMAKV</p> <p>FKEVLGDMML TKPTEASADQ LPSPSQLREK IIIKHKKLGP KGDVDVNVED KKDEHKPQGE</p> <p>LYMWDSIDQK WTRHYCAIAD AKLSFGDDIE QAVEEEPVDQ TPPTELHFGE KWFHKKVESR</p> <p>TSAEKLLQEY CAETGAKDGT FLVRESETFP NDYTLFSWRS GRVQHCIRRS TMENGVMKYY</p> <p>LTDNLTFNSI YALIQHYREA HLRCAEFELR LTDPVPPNP HESKPWYYDS LSRGEAEDML</p> <p>MRIPRDGAFL IRKREGTNSY AITFRARGKV KHCINRDGR HFVLGTSAYF ESLVELVSY</p>
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EKHALYRKMR LRYPVTPPELL ERYNMERDIN SLYDVSRMYV DPSEINPSMP QRTVKALYDY
KAKRSDELTF CRGALIHNVS KEPGGWWKGD YGTRIQQYFP SNYVEDISAG DAEEMEKQII
EDNPLGSLCK GILDNTYNV VKAPQGKNQK AFVFILEPKK QGDPPVEFAT DRVEELFEWF
QSIREITWKM DTKENNMKYW ERNQSIAIEL SDLVVYCKPT SKTKDHLENP DFREIRSFVE
TKADSIVRQK PVDLLRYNQK GLTRVYPKGQ RVDSSNYDPF RLWLCGSQMV ALNFQTPDKY
MQMNHAFSL NGRTGYVLQP ESMRSEKYDP MPLESQRKIL MTLTVKVLGA RHLPKLGRSI
ACPFVEVEIC GAEYDSNFKF TTVVNDNGLS PVWAPTQEKV TFEIYDPNLA FLRFVVEED
MFSDPNFLAH ATYPIKGIKS GFRSVPLKNG YSEDIELASL LVFCEMRPVL ESEELYSSC
RQLRRRQEEL NNQLFLYDTH QNLRGANRDA LVKEFNVNEN QLQLYQEKCN RRLREKRVS
N SRFYS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Plcg2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

- different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	Phospholipase C gamma 2 (PLCG2)
Alternative Name:	Plcg2 (PLCG2 Products)
Background:	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 (By similarity). {ECO:0000250}.
Molecular Weight:	148.5 kDa Including tag.
UniProt:	Q8CIH5
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.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process