

Datasheet for ABIN3094665

Phospholipase C gamma 2 Protein (PLCG2) (AA 1-1265) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	Phospholipase C gamma 2 (PLCG2)
Protein Characteristics:	AA 1-1265
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Phospholipase C gamma 2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MSTTVNVDSL AEYEKSQIKR ALELGTVM TV FSFRKSTPER RTVQVIMETR QVAWSKTADK</p> <p>IEGFLDIMEI KEIRPGKNSK DFERAKAVRQ KEDCCFTILY GTQFVLSTLS LAADSKEDAV</p> <p>NWLSGLKILH QEAMNASTPT IIESWLRKQI YSVDQTRRNS ISLRELK TIL PLINFKVSSA</p> <p>KFLKDKFVEI GAHKDELSFE QFHLFYKKLM FEQQKSILDE FKKDSSVFIL GNTDRPDASA</p> <p>VYLHDFQRFL IHEQQEHWAQ DLNKVRERMT KFIDDTMRET AEPFLFVDEF LTYLFSRENS</p> <p>IWDEKYDAVD MQDMNNPLSH YWISSSHNTY LTGDQLRSES SPEAYIRCLR MGCRCIELDC</p> <p>WDGPDGKPMI YHGWTRTTKI KFDDVVQAIK DHAFVTSSFP VILSIEEHCS VEQQRHMAKA</p> <p>FKEVFGDLLL TKPTEASADQ LPSPSQLREK IIKHKKLGP RGDVDVNMED KKDEHKQQGE</p> <p>LYMWDSIDQK WTRHYCAIAD AKLSFSDDIE QTMEEEVPQD IPPTELHFGE KWFHKKVEKR</p> <p>TSAEKLLQEY CMETGGKDGT FLVRESETFP NDYTLSEFWS GRVQHCRIRS TMEGGTLKYY</p> <p>LTDNLTFSSI YALIQHYRET HLRCAEFELR LTDPVPNP NP HESKPWYYDS LSRGEAEDML</p>

MRIPRDGAFL IRKREGSDSY AITFRARGKV KHCINRDGR HFVLGTSAYF ESLVELVSY
EKHSLYRKMR LRYPTPELL ERYNMERDIN SLYDVSRMYV DPSEINPSMP QRTVKALYDY
KAKRSELSF CRGALIHNVS KEPGGWWKGD YGTRIQQYFP SNYVEDISTA DFEELEKQII
EDNPLGSLCR GILDNTYNV VKAPQGKNQK SFVFILEPKQ QGDPPVEFAT DRVEELFEWF
QSIREITWKI DTKENNMKYW EKNQSI AIEL SDLVVYCKPT SKTKDNLENP DFREIRSFVE
TKADSIIRQK PVDLLKYNQK GLTRVYPKGQ RVDSSNYDPF RLWLCSQMV ALNFQTADKY
MQMNHAFSL NGRTGYVLQP ESMRTEKYDP MPPEQRKIL MTLTVKVLGA RHLPKLGRSI
ACPFVEVEIC GAEYDNNKFK TTVVNDNGLS PIWAPTQEKV TFEIYDPNLA FLRFVVEED
MFSDPNFLAH ATYPIKAVKS GFRSVPLKNG YSEDIELASL LVFCMRPVL ESEELYSSC
RQLRRRQEEL NNQLFLYDTH QNLRNANRDA LVKEFSVNEN QLQLYQECN KRLREKRVS
N SKFYS

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system -

Product Details

all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	Phospholipase C gamma 2 (PLCG2)
Alternative Name:	PLCG2 (PLCG2 Products)
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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months