

Datasheet for ABIN3131928
PIK3C2G Protein (AA 1-1506) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	PIK3C2G
Protein Characteristics:	AA 1-1506
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3C2G protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MAYSWQTEPN RTEPQEDGSD TQQFHHTNQH LSSRQVRLGF DQLVEEINNK TPLSESEKEE
DTYFVPDAPN LGSKWPSIYE THPRYFSEFT SQSPDSSQLR FGKLSAIGFN PAVLPTHQLI
HEGASWRNPS GKYHGIEYPR FDALPPSSTG QGECNPQGQS GTKHHNYCGE HEGNLPHHHS
SYSIDSIPNR EKRRSGDVNL VEPSLEFSKD SFLPRTSENV SVESTEPIGC PIEIVEVPQG
SNKNLASFCN KVKKIRESYH ASDINSNSGK IWAITTAYPS RLFADTKFRV KISIDNSAQL
LLLMPHANYL VKDLIAEILL LCANEPLSPK EYLLSVCVGE EFLQMDHSLG SHKIFQKNKS
VIQLHLQKNR DTPGKLSRKS EDDHSPFHLN QLLEFTHIWK ISRQCLSTVM KKYNLHVEHL
LKPQKDMEEK HLSSMVSGNQ HTSQPHVNNV LEEVKNICSV LGCIETKQVS DAVKELNLIL
QRPSQNFHQN SETSKKGFIE RVTAELRSI YQLIDVYCSS FCTDFQPVHT PGGVSHVHAG
LQSHLSFTVC SLHNPETWA HSYKAFSFC WLTYAGKKLC QVKSRCPLPV TKSFSLLVNW
NEIINFPLEI KSLPRESMLV IKLFGIDSAT HSTNLLAWTC LPLFPRQESV LGSRLFSVTL
QSEPPMEMIA PGVWDGSQPS PLTLQIDFPD AGWEYLKPEE EENRTDHEEP PRECLKHIAK

LSQKKSPLLL SEEKRRYLWF YRLYCINNENS SLPLVLGSAP GWDEETVSEM HAILRRWTFSS
HPWEALGLLT SRFPDQDIRE VAVQQLDTLL TDELLDCLPQ LVQAVKFEWN LESPLVELLP
RRPLQSIRVA HCLYWLLRDA QGEAYFKSWY QELLAALQFC AGEALNEELS KEQKLVKLLG
DIGEKVKSAS DPQRKDVLLK EIGSLEEFFK DIKTCHLPLN PALCIKIDR DACSYFTSNA
SPLKITFINA NPMGKNISVI FKAGDDLQD MLALQIQVM DNAWLQEGLD MQMITYGCLS
TGRAQGFIE M VPAVTLAKI HLHSGLIGPL KENTIKKWFS QHNHLKEDYE KALRNFFYSC
AGWCVVTFIL GVCDRHNDNI MLTKSGHMFH IDFGKFLGHA QTFGGIKRDR APFIFTSEME
YFITEGGKNI QHFQDFVELC CRAYNIVRKH SQLILSLEM MLHAGLPELR GIEDLKYVHN
NLRPQDLDLE ATSHFTKKIK ESLECFPVKL NNIHTLAQM PALSLAKPAP QTLLQESCIL
NKTRTIQRTV ILGFSKTHSN LYLMEVTCSD NRRSLTKKSF EQFYRLHSQM QKQFSSLALP
EFPHWWHLPF TDSDHKRIRD LSHYVEQVLR GSYEVANSDC VLSFFLSEHI QPTLEDSPFV
DPGENSLDKS PKVQLLMTYE DSRLTILVKH LKNIHLPDGS VPSAHVEIYL LPHPSEVRRK
KTKCVPKCTD PTYNEIVVYD EVLGLQGHVL MLIVKSKTVF VGAVNIQLCS VPLNEEKWYP LGNSII

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 Pik3c2g 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

Product Details

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: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three 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:	PIK3C2G
Alternative Name:	Pik3c2g (PIK3C2G Products)
Background:	Generates phosphatidylinositol 3-phosphate (PtdIns3P) and phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P ₂) that act as second messengers. May play a role in SDF1A-stimulated chemotaxis. {ECO:0000269 PubMed:20536348, ECO:0000269 PubMed:9514948}.
Molecular Weight:	172.5 kDa Including tag.
UniProt:	O70167
Pathways:	Inositol Metabolic Process

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.

Application Details

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