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Datasheet for ABIN3094591
PIK3R4 Protein (AA 2-1358) (His tag)

Overview

Quantity:	1 mg
Target:	PIK3R4
Protein Characteristics:	AA 2-1358
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3R4 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: GNQLAGIAPS QILSVESYFS DIHDFEYDKS LGSTRFFKVA RAKHREGLVV VKVFAIQDPT
LPLTSYKQEL EELKIRLNSA QNCLPFQKAS EKASEKAAML FRQYVRDNLY DRISTRPFLN
NIEKRWIAFQ ILTAVDQAHK SGVRHGDIKT ENVMVTSWNW VLLTDFASFK PTYLPEDNPA
DFNYFFDTSR RRTCYIAPER FVDGGMFATE LEYMRDPSTP LVDLNSNQRT RGEKRAMDI
FSAGCVIAEL FTEGVPLFDL SQLLAYRNGH FFPEQVLNKI EDHSIRELVT QMIHREPKR
LEAEDYLKQQ RGNAPFEIFY TFLQPYMAQF AKETFLSADE RILVIRKDLG NIIHNLCGHD
LPEKAEPEPK ENGLVILVSV ITSCLQTLKY CDSKLALEL ILHLAPRLSV EILLDRITPY
LLHFSNDSVP RVRAEALRTL TKVLALVKEV PRNDINIYPE YILPGIAHLA QDDATIVRLA
YAENIALLAE TALRFLELVQ LKNLNMENDP NNEEIDEVTH PNGNYDTELQ ALHEMVQQKV
VTLLSDPENI VKQTLMENGI TRLCVFFGRQ KANDVLLSHM ITFLNDKNDW HLRGAFFDSI
VGVAAYVGWQ SSSILKPLLQ QGLSDAEFV IVKALYALTC MCQLGLLQKP HVYEFASDIA
PFLCHPNLWI RYGAVGFITV VARQISTADV YCKLMPYLDP YITQPIQIE RKLVLVSVLK

EPVSRISFDY ALRSKDITSL FRHLHMRQKK RINGSLPDCPP PEDPAIAQLL KKLLSQGMTE
EEEDKLLALK DFMMKSNKAK ANIVDQSHLH DSSQKGVIDL AALGITGRQV DLVKTQKQEPD
DKRARKHVKQ DSNVNEEWKS MFGSLDPPNM PQALPKGSDQ EVIQTGKPPR SESSAGICVP
LSTSSQVPEV TTVQNKKPVI PVLSSSTILPS TYQIRITTCK TELQLLIQK REQNAERIA
KQMMENAWE SKPPPPGWRP KGLLVAHLHE HKSAVNRIRV SDEHSLFATC SNDGTVKIWN
SQKMEGKTTT TRSILTYSRI GGRVKTLTFC QGSHYLAIAS DNGAVQLLGI EASKLPKSPK
IHPLQSRILD QKEDGCVVDM HHFNLSGAQSV LAYATVNGSL VGWDLRSSSN AWTLKHDLKS
GLITSFAVDI HQCWLCIGTS SGTMACWDMR FQLPISSHCH PSRARIRRLS MHPLYQSWVI
AAVQGNNEVS MWDMETGDRR FTLWASSAPP LSELQPSPHS VHGIYCSPAD GNPILLTAGS
DMKIRFWDLA YPERSYVVAG STSSPSVSYI RKIIEGTEVV QEIQNKQKVG PSDDTPRRGP
ESLPVGHDI ITDVATFQTT QGFIVTASRD GIVKVKW

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.
- Human PIK3R4 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:

Product Details

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: PIK3R4

Alternative Name: PIK3R4 ([PIK3R4 Products](#))

Background: Regulatory subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate, different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123).
{ECO:0000269|PubMed:20643123}.

Molecular Weight: 153.9 kDa Including tag.

UniProt: [Q99570](#)

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: 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)