

Datasheet for ABIN3094632

## PIK3R5 Protein (AA 1-880) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	PIK3R5
Protein Characteristics:	AA 1-880
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3R5 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MQPGATTCTE DRIQHALERC LHGLSLSRRS TWSAGLCLN CWSLQELVSR DPGHFLILLE</p> <p>QILQKTREVQ EKGTYDLLTP LALLFYSTVL CTPHFPPDS LLLKAASTYH RFLTWPVPYC</p> <p>SICQELLTFI DAELKAPGIS YQRLVRAEQG LPIRSHRSST VTVLLLNVE VQAEFLAVAN</p> <p>KLSTPGHSPH SAYTTLLLHA FQATFGAHCD VPGLHCRLQA KTLAELEDIF TETAEAQELA</p> <p>SGIGDAAEAR RWLRTKLQAV GEKAGFPGVL DTAKPGKLHT IPIPVARCYT YSWSQDSFDI</p> <p>LQEILLKEQE LLQPGILGDD EEEEEEEEEV EEDLETGHC AERDSSLSTS SLASHDSTLS</p> <p>LASSQASGPA LSRHLLTSFV SGLSDGMDSG YVEDSEESSS EWPWRRGSQE RRGHRRPGQK</p> <p>FIRIYKLFKS TSQVLRRDS RSLEGSSDTA LPLRRAGSLC SPLDEPVSP SRAQRSRSLP</p> <p>QPKLGTQLPS WLLAPASRPQ RRRPFLSGDE DPKASTLRVV VFGSDRISGK VARAYSNLRR</p> <p>LENNRPLLTR FFKLQFFYVP VKRSHGTSPG ACPPPRSQTP SPPTDSPRHA SPGELGTPPW</p> <p>EESTNDISHY LGMLDPWYER NVLGLMHLPP EVLCQQSLKA EAQALEGSPT QLPILADMLL</p>

YYCRFAARPV LLQVYQTELT FITGEKTTEI FIHSLELGHS AATRAIKASG PGSKRLGIDG  
DREAVPLTLQ IYKGAISG RSRWSNLEKV CTSVNLNKAC RKQEELDSSM EALTNLTEV  
VKRQNSKSKK GFNQISTSQI KVDKVQIIGS NSCPFAVCLD QDERKILQSV VRCEVSPCYK  
PEKSDLSSPP QTPDLPAQA APDLCSLLCL PIMTFSGALP

**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.**

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### 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 - 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.

## Product Details

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

Target:	PIK3R5
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Alternative Name:	PIK3R5 ( <a href="#">PIK3R5 Products</a> )
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Background:	Phosphoinositide 3-kinase regulatory subunit 5 (PI3-kinase regulatory subunit 5) (PI3-kinase p101 subunit) (Phosphatidylinositol 4,5-bisphosphate 3-kinase regulatory subunit) (PtdIns-3-kinase regulatory subunit) (Protein FOAP-2) (PtdIns-3-kinase p101) (p101-PI3K),FUNCTION: Regulatory subunit of the PI3K gamma complex. Required for recruitment of the catalytic subunit to the plasma membrane via interaction with beta-gamma G protein dimers. Required for G protein-mediated activation of PIK3CG (By similarity). {ECO:0000250}.
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Molecular Weight:	97.3 kDa
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UniProt:	<a href="#">Q8WYR1</a>
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Pathways:	<a href="#">PI3K-Akt Signaling</a> , <a href="#">Inositol Metabolic Process</a> , <a href="#">Hepatitis C</a> , <a href="#">VEGF Signaling</a>
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## 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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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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Application Details

Restrictions: For Research Use only

Handling

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