

Datasheet for ABIN3094651

PIK3R6 Protein (AA 1-754) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PIK3R6
Protein Characteristics:	AA 1-754
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3R6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MESSDVLDL QRSVQAVLRE LSTQAPALQS NQGMWRWSLH KKVERDPGKS PVLVRILLRE</p> <p>LEKAESQDLR HVIIPLLHTV MYVLTKATGI TEELYQRIYA FCTRLTLPT PYCTVALDCA</p> <p>IRLKTEMAVP GTLYQRMVIA EQNLTNELYP YQERVFLFVD PELVSASVCS ALLLEIEAAQ</p> <p>AQQTPEFCMR HVVSHALQAA LGEACHAGAL HRKLQASPRR TLEHYFHAVV AALEQMASEA</p> <p>SPSREGHVER LEEIYCSLLG PAAGRCGGDL VQERPPSIPL PSPYITFHLW TGEEQLWKEL</p> <p>VLFLRPRSQL RLSADLEVLD LQGLRPDREL ARVSVLSTDS GIERDLPTGA DELPAGSPE</p> <p>MERAGLQRKG GIKKRAWPLD FLMPGSWDGP PGLHRRTGRP SGDGEMLPGV SRLHTARVLV</p> <p>LGDDRMLGRL AQAYHRLRKR ETQKFCLTPR LSLQLYYIPV LAPEKPAASR QPELGELATF</p> <p>LGRVDPWYQS NVNTLCPAII KLAEMPPSLD TSRTVDPFIL DVITYYIRMG TQPIYFQIYT</p> <p>VKIFFSDLSQ DPTEDIFLIE LKVKIQDSKF PKDGFSPRRR GVAEGPGAEL SLCYQKALLS</p> <p>HRPREVTVSL RATGLILKAI PASDTEVSGS SHCPLPAAPV TDHTCLNVNV TEVVKSSNLA</p>

GKSFSTVTNT FRTNNIIQIS RDQRLLTSL DKDDQRTFRD VVRFEVAPCP EPCSGAQKSK
APWLNHLHGQQ EVEAIKAKPK PLLMPINTFS GIVQ

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 - 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®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: PIK3R6

Alternative Name: PIK3R6 ([PIK3R6 Products](#))

Background: Phosphoinositide 3-kinase regulatory subunit 6 (Phosphoinositide 3-kinase gamma adapter protein of 87 kDa) (p84 PI3K adapter protein) (p84 PIKAP) (p87 PI3K adapter protein) (p87PIKAP),FUNCTION: Regulatory subunit of the PI3K gamma complex. Acts as an adapter to drive activation of PIK3CG by beta-gamma G protein dimers. The PIK3CG:PIK3R6 heterodimer is much less sensitive to beta-gamma G protein dimers than PIK3CG:PIK3R5 and its membrane recruitment and beta-gamma G protein dimer-dependent activation requires HRAS bound to PIK3CG. Recruits of the PI3K gamma complex to a PDE3B:RAPGEF3 signaling complex involved in angiogenesis, signaling seems to involve RRAS. {ECO:0000269|PubMed:21393242}.

Molecular Weight: 84.3 kDa

UniProt: [Q5UE93](#)

Pathways: [PI3K-Akt Signaling](#), [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: 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.

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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 Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months