

Datasheet for ABIN7550775

PIP5K1B Protein (AA 1-540) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	PIP5K1B
Protein Characteristics:	AA 1-540
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIP5K1B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PIP5K1B Protein expressed in mammalian cells.
Sequence:	<p>MSSAAENGEA APGKQNEEK YKKTASSAIK GAIQLGIGYT VGNLTSKPER DVLMQDFYVV</p> <p>ESVFLPSEGS NLTPAHHPD FRFKTYAPLA FRYFRELFGEI KPDDYLYSIC SEPLIELSNP</p> <p>GASGSLFFVT SDDEFIITV QHKEAEFLQK LLPGYMNLN QNPRTLTPKF YGLYCMQSGG</p> <p>INIRIVVMNN VLPRSMRMHF TYDLKGSTYK RRASRKEREK SNPTFKDLDF LQDMHEGLYF</p> <p>DTETYNALMK TLQRDCRVLE SFKIMDYSLL LGIHFLDHSL KEKEETPQN VPDARTGMQ</p> <p>KVLYSTAMES IQGPGKSGDG IITENPDTMG GIPAKSHRGE KLLLFMGIID ILQSYRLMKK</p> <p>LEHSWKALVY DGDVTSVHRP SFYADRFLKF MNSRVFKKIQ ALKASPSKKR CNSIAALKAT</p> <p>SQEIVSSISQ EWKDEKRDLL TEGQSFSLLD EEALGSRHRP DLVPSTPSLF EAASLATTIS</p> <p>SSSLYVNEHY PHDRPTLYSN SKGLPSSSTF TLEEGTIYLT AEPNTLEVQD DNASVLDVYL</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary.</p>

In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

PIP5K1B

Alternative Name:

PIP5K1B ([PIP5K1B Products](#))

Background:

Phosphatidylinositol 4-phosphate 5-kinase type-1 beta (PIP5K1-beta) (PtdIns(4)P-5-kinase 1 beta) (EC 2.7.1.68) (Phosphatidylinositol 4-phosphate 5-kinase type I beta) (PIP5KIbeta) (Protein STM-7) (Type I phosphatidylinositol 4-phosphate 5-kinase beta),FUNCTION: Catalyzes the phosphorylation of phosphatidylinositol 4-phosphate (PtdIns(4)P/PI4P) to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2/PIP2), a lipid second messenger that regulates several cellular processes such as signal transduction, vesicle trafficking, actin cytoskeleton dynamics, cell adhesion, and cell motility (By similarity). PtdIns(4,5)P2 can directly act as a second messenger or can be utilized as a precursor to generate other second messengers: inositol 1,4,5-trisphosphate (IP3), diacylglycerol (DAG) or phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3/PIP3) (By similarity). Mediates RAC1-dependent reorganization of actin filaments. Contributes to the activation of phospholipase PLD2. Together with PIP5K1A, is required, after stimulation by G-protein coupled receptors, for the

Target Details

	synthesis of IP3 that will induce stable platelet adhesion (By similarity). {ECO:0000250 UniProtKB:P70181, ECO:0000250 UniProtKB:Q99755}.
Molecular Weight:	61.0 kDa
UniProt:	O14986
Pathways:	PI3K-Akt Signaling , Inositol Metabolic Process , Cell-Cell Junction Organization

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months