

# Recombinant human PIP4K2B protein

Catalog Number: ATGP1942

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-416aa

**UniProt No.**

P78356

**NCBI Accession No.**

NP\_003550

**Alternative Names**

Phosphatidylinositol 5-phosphate 4-kinase type-2 beta, PI5P4KB, PIP5K2B, PIP5KIIB, PIP5KIIBeta

## PRODUCT SPECIFICATION

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**Molecular Weight**

49.8 kDa (439aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Purity**

&gt; 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

PIP4K2B catalyzes the phosphorylation of phosphatidylinositol-4-phosphate on the fifth hydroxyl of the myo-inositol ring to form phosphatidylinositol-4, 5-bisphosphate. It is a member of the phosphatidylinositol-4-phosphate 5-kinase family. The amino acid sequence of PIP4K2B does not show similarity to other kinases, but the protein does exhibit kinase activity. Additionally, PIP4K2B interacts with p55 TNF receptor. Recombinant human PIP4K2B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

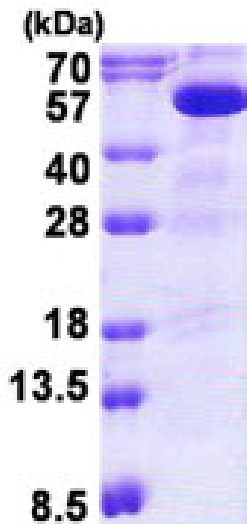
MGSSHHHHHH SSSLVPRGSH MGSMSSNCTS TTAVAVAPLS ASKTKTKKKH FVCQKVKLFR ASEPILSVLM WGVNHTINEL  
SNVPVPMMLM PDDFKAYSKI KVDNHLFNKE NLPSRFKFK EYCPMVFRNLR ERFGIDDQDY QNSVTRSAPI NSDSQGRCGT  
RFLTTYDRRF VIKTVSSEDEV AEMHNILKKY HQFIVECHGN TLLPQFLGMY RLTVDGVETY MVVTRNVFSH RLTVHRKYDL  
KGSTVAREAS DKEKAKDLPT FKDNDFLNEG QKLHVGEESK KNFLEKLRD VEFLAQLKIM DYSLLVGIHD VDRAEQEEME  
VEERAEDEEC ENDGVGGNLL CSYGTPPDSP GNLLSFPRFF GPGEFDPSVD VYAMKSHESH PKKEVYFMAI IDILTPYDTK  
KKAHAHAATV KHGAGAEIST VNPEQYSKRF NEFMSNILT

## General References

Richardson JP, Wang M, et al. (2007). Cell Signal. 19(6):1309-14.  
Luoh SW, Venkatesan N, et al. (2004). Oncogene. 23(7):1354-63.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)