

# Recombinant human PSTPIP1 protein

Catalog Number: ATGP2158

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-416aa

### UniProt No.

O43586

### NCBI Accession No.

NP\_003969

### Alternative Names

Proline-serine-threonine phosphatase interacting protein 1, CD2BP1, CD2BP1L, CD2BP1S, H-PIP, PAPAS, PSTPIP

## PRODUCT SPECIFICATION

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### Molecular Weight

50kDa (439aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 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

PSTPIP1 binds to the cytoplasmic tail of CD2, an effector of T cell activation and adhesion, negatively affecting CD2-triggered T cell activation. The protein appears to be a scaffold protein and a regulator of the actin cytoskeleton. It has also been shown to bind ABL1, PTPN18, WAS, CD2AP, and PTPN12. Mutations in this gene are a cause of PAPA syndrome. Recombinant human PSTPIP1 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 MGSMMPLQF KDAFWCRDFT AHTGYEVLLQ RLLDGRKMCK DMEELLRQRA  
QAEERYGKEL VQIARKAGGQ TEINSLRASL DSLKQQMENV GSSHIQLALT LREELRSLEE FRERQKEQRK KYEAVMDRVQ  
KSKLSLYKKA MESKKTYEQK CRDADDAEQE FERISANGHQ KQVEKSNKA RQCKDSATEA ERVYRQSIAQ LEKVRAEWEQ  
EHRTTCEAFQ LQEFDRILT RNALWVHSNQ LSMQCVKDDE LYEEVRLTLE GCSIDADIDS FIQAKSTGTE PPAPVPYQNY  
YDREVTPLTS SPGIQPSCGM IKRFSGLLHG SPKTTSLAAS AASTETLTPT PERNEGVYTA IAVQEIQGNP ASPAQEYRAL  
YDYTAQNPDE LDLSAGDILE VILEGEDGWW TVERNGQRGF VPGSYLEKL

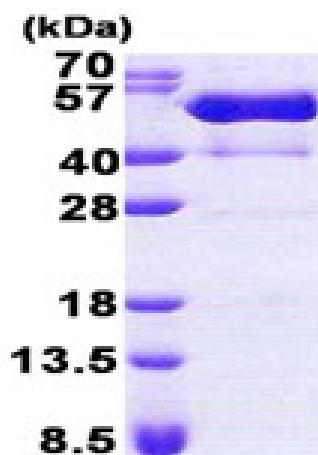
## General References

Shoham N.G., et al. (2003) Proc. Natl. Acad. Sci. u.S.A. 100:13501-13506

Wise C.A., et al. (2002) Hum. Mol. Genet. 11:961-969

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)