

# Recombinant human BRDG1/STAP1 protein

Catalog Number: ATGP1552

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-295aa

### UniProt No.

Q9ULZ2

### NCBI Accession No.

NP\_036240

### Alternative Names

Signal-transducing adaptor protein 1, BRDG1, STAP-1

## PRODUCT SPECIFICATION

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### Molecular Weight

36.8 kDa (319aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 95% 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

STAP1, also known as signal-transducing adaptor protein 1, appears to functions as a docking protein acting downstream of Tec tyrosine kinase in B cell antigen receptor signaling. The protein is directly phosphorylated by Tec in vitro where it participates in a positive feedback loop, increasing Tec activity. Recombinant human STAP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

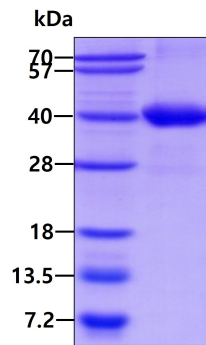
<MGSSHHHHHH SSGLVPRGSH MGSH>MMAKKP PKPAPRRIFQ ERLKITALPL YFEGFLLIKR SGYREYEHYW TELRGTTLFF  
YTDKKSIIYV DKLDIVDLTC LTEQNSTEKN CAKFTLVLPK EEVQLKTENT ESGEWRGFI LVTTELSVPQ NVSLLPGQVI  
KLHEVLEREK KRRIETEOST SVEKEKEPTE DYVDVLNPMP ACFYTVSRKE ATEMLQKNPS LGNMILRPGS DSRNYSITIR  
QEIDIPRIKH YKVM SVGQNY TIELEKPVTL PNLFSVIDYF VKETRGNLRP FICSTDENTG QEPSMEGRSE KLKKNPHIA

## General References

Ohya K., et al. (1999) Proc. Natl. Acad. Sci. u.S.A. 96:11976-11981  
Beausoleil S.A., et al. (2006) Nat. Biotechnol. 24:1285-1292

## DATA

### SDS-PAGE



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