# Recombinant human BRDG1/STAP1 protein

Catalog Number: ATGP1552

## PRODUCT INFORMATION

**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

**Molecular Weight**
36.8 kDa (319aa) confirmed by MALDI-TOF

**Concentration**
1mg/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

**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**

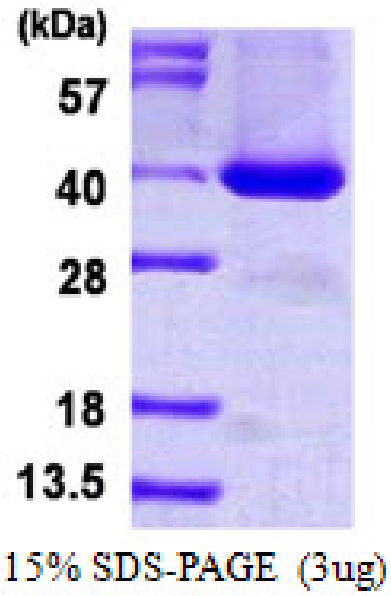
MGSSHHHHHH SSGLVPRGSH MGSHMMAKKP PKPAPRRIFQ ERLKITALPL YFEGFLLIKR SGYREYEHYW TELRGTTLFF YTDKKSIIYV DKLDIVDLTC LTEQNSTEKN CAKFTLVLPK EEVQLKTENT ESGEEWRGFI LTVTELSVPQ NVSLLPGQVI KLHEVLEREK KRRIETEQST SVEKEKEPTE DYVDVLNPMP ACFYTVSRKE ATEMLQKNPS LGNMILRPGS DSRNYSITIR QEIDIPRIKH YKVMSVGQNY TIELEKPVTL PNLFSVIDYF 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**




15% SDS-PAGE (3ug)

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