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## Recombinant human G3BP1 protein

Catalog Number: ATGP0841

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-466aa

#### **UniProt No.**

013283

## **NCBI Accession No.**

NP 005745.1

### **Alternative Names**

G3BP stress granule assembly factor 1, GTPase activating protein (SH3 domain) binding protein 1, Ras-GTPase-activating protein SH3-domain-binding protein, DNA helicase VIII, ATP-dependent DNA helicase VIII, GAP SH3 domain-binding protein 1, DH-VIII, G3BP, G3BP-1

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

53.2 kDa (474aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl

## **Purity**

> 85% 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**

G3BP1 is one of the DNA-unwinding enzymes which prefers partially unwound 3'-tailed substrates and can also unwind partial RNA/DNA and RNA/RNA duplexes in an ATP-dependent fashion. This enzyme is a member of the heterogeneous nuclear RNA-binding proteins and is also an element of the Ras signal transduction pathway. And it cleaves exclusively between cytosine and adenine and cleaves MYC mRNA preferentially at the 3'-uTR.



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Recombinant human G3BP1 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

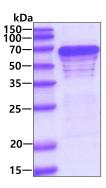
MVMEKPSPLL VGREFVRQYY TLLNQAPDML HRFYGKNSSY VHGGLDSNGK PADAVYGQKE IHRKVMSQNF TNCHTKIRHV DAHATLNDGV VVQVMGLLSN NNQALRRFMQ TFVLAPEGSV ANKFYVHNDI FRYQDEVFGG FVTEPQEESE EEVEEPEERQ QTPEVVPDDS GTFYDQAVVS NDMEEHLEEP VAEPEPDPEP EPEQEPVSEI QEEKPEPVLE ETAPEDAQKS SSPAPADIAQ TVQEDLRTFS WASVTSKNLP PSGAVPVTGI PPHVVKVPAS QPRPESKPES QIPPQRPQRD QRVREQRINI PPQRGPRPIR EAGEQGDIEP RRMVRHPDSH QLFIGNLPHE VDKSELKDFF QSYGNVVELR INSGGKLPNF GFVVFDDSEP VQKVLSNRPI MFRGEVRLNV EEKKTRAARE GDRRDNRLRG PGGPRGGLGG GMRGPPRGGM VQKPGFGVGR GLAPRQ<VEHH HHHH>

#### **General References**

Kurz, J.C., et al. (2000) Curr. Opin. Chem. Biol. 4: 553-558. van Eenennaam, H., et al. (2001) Mol. Biol. Cell. 12: 3680-3689.

#### **DATA**

#### **SDS-PAGE**



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

