

Recombinant human G3BP1 protein

Catalog Number: ATGP0841

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-466aa

UniProt No.

Q13283

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

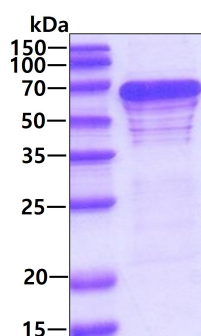
MVMEKPSPLL VGREFVRQYY TLLNQAPDML HRFYGKNSSY VHGGGLDSNGK PADAVYGQKE IHRKVMSQNF TNCHTKIRHV
DAHATLNDGV VVQVMGLLSN NNQALRRFMQ TFLAPEGSV ANKFYVHNDI FRYQDEVFGG FVTEPQEESE EEVEEPEERQ
QTPEVVPDDS GTFYDQAVVS NDMEEHLEEP VAEPEPDPEP EPEQEPVSEI QEEKPEPVLE ETAPEDAQKS SSPAPADIAQ
TVQEDLRTFS WASVTSKNLP PSGAVPVTGI PPHVVKVPAS QRPESKPES QIPPQRPQRD QRVREQRINI PPQRGPRPIR
EAGEQGDIEP RRMVRHPDSH QLFIGNLPHE VDKSELKDFE QSYGNVVELR INSGGKLPNF GFVVFDDEP VQKVLNRPI
MFRGEVRLNV EEKKTAAARE GDRRDNRRLG 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.