

Recombinant Human GTPase Activating Protein (SH3 Domain) Binding Protein 1

Cat. No. G3BP1-1295H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	G3BP1 Human Recombinant fused with 8 amino acid His tag at C-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 474 amino acids (1-466 a.a.) and having a molecular mass of 53.2kDa. The G3BP1 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	1-466 a.a.
Description	G3BP1 belongs to the heterogeneous nuclear RNA-binding proteins and is also an element of the Ras signal transduction pathway. G3BP1 is one of the DNA-unwinding enzymes that favors partially unwound 3"-tailed substrates and is also able to unwind partial RNA/DNA and RNA/RNA duplexes in an ATP-dependent fashion. G3BP1 binds specifically to the Ras-GTPase-activating protein by associating with its SH3 domain. In addition, G3BP1 cleaves exclusively between cytosine and adenine and cleaves MYC mRNA preferentially at the 3"-UTR.
Form	The G3BP1 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 100mM NaCl.
Purity	Greater than 85.0% as determined by SDS-PAGE.

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Physical Appearance	Sterile Filtered colorless solution.
Amino acid sequence	MVMEKPSPLL VGREFVRQYY TLLNQAPDML HRFYGKNSSY VHGGGLDSNGK 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 VDKSELKDFE QSYGNVVELR INSGGKLPNF GFVVFDDSEP VQKVLNRPPI MFRGEVRLNV EEKKTRAARE GDRRDNRLRG PGGPRGGLGG GMRGPPRGGM VQKPGFGVGR GLAPRQVEHH HHHH.
Storage	G3BP1 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
GENE INFORMATION	
Gene Name	G3BP1 GTPase activating protein (SH3 domain) binding protein 1 [Homo sapiens]
Official Symbol	G3BP1
Synonyms	GTPase activating protein (SH3 domain) binding protein 1; G3BP; HDH-VIII; MGC111040; G3BP1; ras GTPase-activating protein-binding protein 1; G3BP-1; GAP binding protein; ATP-dependent DNA helicase VIII; GAP SH3 domain-binding protein 1; RasGAP-associated endoribonuclease G3BP; Ras-GTPase-activating protein SH3-domain-binding protein; hDH VIII; EC 3.6.1.
Gene ID	10146

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mRNA Refseq	NM_005754
Protein Refseq	NP_005745
MIM	608431
UniProt ID	Q13283
Chromosome Location	5q33.1
Function	ATP binding; ATP-dependent DNA helicase activity; ATP-dependent RNA helicase activity; DNA binding; RNA binding; endonuclease activity; helicase activity; hydrolase activity; nucleotide binding protein binding

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