

G3BP1 Human

Description: G3BP1 Human Recombinant fused with an 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.

Catalog #: ENPS-055

For research use only.

Synonyms: Ras GTPase-activating protein-binding protein 1, G3BP-1, ATP-dependent DNA helicase VIII, hDH VIII, GAP SH3 domain-binding protein 1, G3BP1, G3BP, HDH-VIII, MGC111040.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MVMEKPSPLL VGREFVRQYY TLLNQAPDML HRFYGNSSSY
VHGGLDSNGK PADAVYGQKE IHRKVMSQNF TNCHTKIRHV DAHATLNDGV VVQVMGLLSN
NNQALRRFMQ TFVLAPEGSV ANKFYVHNDI FRYQDEVFGG FVTEPQEESE EEVEEPEERQ
QTPEVVPDDS GTFYDQAVVS NDMEEHLEEP VAEPEPDPEP EPEQEPVSEI QEEKPEPVLE
ETAPEDAQKS SS

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:

The G3BP1 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 100mM NaCl.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

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.

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