

Recombinant Mouse G3bp1 Protein, Myc/DDK-tagged

Cat. No. G3bp1-3122M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length GTPase activating protein (SH3 domain) binding protein 1 (G3bp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	May be a regulated effector of stress granule assembly. Phosphorylation-dependent sequence-specific endoribonuclease in vitro. Cleaves exclusively between cytosine and adenine and cleaves MYC mRNA preferentially at the 3'-UTR. ATP- and magnesium-dependent helicase. Unwinds preferentially partial DNA and RNA duplexes having a 17 bp annealed portion and either a hanging 3' tail or hanging tails at both 5'- and 3'-ends. Unwinds DNA/DNA, RNA/DNA, and RNA/RNA substrates with comparable efficiency. Acts unidirectionally by moving in the 5' to 3' direction along the bound single-stranded DNA.
Molecular Mass	51.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name G3bp1 GTPase activating protein (SH3 domain) binding protein 1 [Mus musculus (house mouse)]

Official Symbol G3bp1

Synonyms G3bp1; GTPase activating protein (SH3 domain) binding protein 1; G3bp; C87777; AI849976; mKIAA4115; B430204O07; ras GTPase-activating protein-binding protein 1; ATP-dependent DNA helicase VIII; G3BP-1; GAP SH3 binding protein; GAP SH3 domain-binding protein 1; HDH-VIII; Ras-GTPase-activating protein SH3-domain binding protein 1; EC 3.6.4.12; EC 3.6.4.13

Gene ID 27041

mRNA Refseq NM_013716

Protein Refseq NP_038744

UniProt ID P97855

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