

Recombinant Human BIN1, His-tagged

Cat. No. BIN1-26316TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human BIN1 with an N terminal His tag; 459 amino acids including the tag, MWt 50.4kDa.
Species	Human
Source	E.coli
ProteinLength	439 amino acids
Description	This gene encodes several isoforms of a nucleocytoplasmic adaptor protein, one of which was initially identified as a MYC-interacting protein with features of a tumor suppressor. Isoforms that are expressed in the central nervous system may be involved in synaptic vesicle endocytosis and may interact with dynamin, synaptojanin, endophilin, and clathrin. Isoforms that are expressed in muscle and ubiquitously expressed isoforms localize to the cytoplasm and nucleus and activate a caspase-independent apoptotic process. Studies in mouse suggest that this gene plays an important role in cardiac muscle development. Alternate splicing of the gene results in ten transcript variants encoding different isoforms. Aberrant splice variants expressed in tumor cell lines have also been described.
Conjugation	HIS
Molecular Weight	50.400kDa inclusive of tags
Tissue specificity	Ubiquitous. Highest expression in the brain and muscle. Isoform IIA is expressed only

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in the brain where it is concentrated in axon initial segments and nodes of Ranvier. Isoform BIN1 is widely expressed with highest expression in skeletal muscle.

Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Sequences of amino acids

MGSSHHHHHSSGLVPRGSHMAEMGSKGVTAGKIASNVQKKLTRAQEKVLQKLGK
 ADETKDEQFEQCVQNFNKQLTEGTRLQKDLRITYLASVKAMHEASKKLNELQEVYE
 PDWPGRDEANKIAENNDLLWMDYHQKLVLDQALLTMDTYLGQFPDIKSRIAKRGRKL
 VDYDSARHHYESLQTAKKKDEAKIAKAEELIKAQKVFEEMNVDLQEELPSLWNSRV
 GFYVNTFQSIAGLEENFHKEMSKLNQNLNDVLVGLEKQHGSNFTFTVKAQPSDNAPA
 KGNKSPSPDGGSPAATPEIRVNHPEPEPAGGATPGATLPKSPSQPAEASEVAGGTQP
 AAGAQEPGETAASEAASSSLPAVVVETFPATVNGTVEGGSGAGRLDLPPGFMFKV
 QAQHDYTATDDELQLRAGDVVLVIPFQNPEEQDEGWLMGVKESDWNQHKLEKLC
 RGVFPENFTEVP

Sequence Similarities
 Contains 1 BAR domain. Contains 1 SH3 domain.

GENE INFORMATION

Gene Name	BIN1 bridging integrator 1 [Homo sapiens]
Official Symbol	BIN1

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Synonyms	BIN1; bridging integrator 1; AMPHL; myc box-dependent-interacting protein 1; AMPH2; amphiphysin II; SH3P9;
Gene ID	274
mRNA Refseq	NM_004305
Protein Refseq	NP_004296
MIM	601248
Uniprot ID	O00499
Chromosome Location	2q14
Pathway	Arf6 trafficking events, organism-specific biosystem;
Function	GTPase binding; protein binding; protein heterodimerization activity;

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