

Recombinant Human BIN1, His-tagged

Cat. No. BIN1-26751TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 96-439 of Human BIN1 with N-terminal His tag, Predicted MWt 39 kDa.
Species	Human
Source	E.coli
ProteinLength	96-439 a.a.
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
Tissue specificity	Ubiquitous. Highest expression in the brain and muscle. Isoform IIA is expressed only 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilised:Reconstitute with 118 µl aqua dest
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium hydrogen phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GRDEANKIAENNDLLWMDYHQKLVDQALLTMDTYLGQFPD IKSRIAKRGRKLVDYD SARHHYESLQTAKKKDEAKIAK AEEELIKAQKVFEEMNVDLQEELPSLWNSRVGFY VNTF QSIAGLEENFHKEMSKLNQNLNDVLVGGLEKQHGSNTFT VKAQPSDNAPAKG NKSPSPPDGSPAATPEIRVNHEPEPAG GATPGATLPKSPSQPAEASEVAGGTQPA AGAQEPGETA ASEAASSSLPAVVVETFPATVNGTVEGGSGAGRLDLPP GFMFKVQ AQHDYTATDDELQLKAGDVVLVIPFQNPEE QDEGWLMGVKESDWNQHKELEKC RGVFPENFTERVP
Sequence Similarities	Contains 1 BAR domain.Contains 1 SH3 domain.

GENE INFORMATION

Gene Name	BIN1 bridging integrator 1 [Homo sapiens]
Official Symbol	BIN1
Synonyms	BIN1; bridging integrator 1; AMPHL; myc box-dependent-interacting protein 1; AMPH2; amphiphysin II; SH3P9;
Gene ID	274
mRNA Refseq	NM_004305

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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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