RNA-Binding Protein Musashi Homolog 2 (MSI2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA-binding protein Musashi homolog 2 (MSI2), Recombinant Protein
Full Product Name	Recombinant Human RNA-binding protein Musashi homolog 2 (MSI2)
Product Gene Name	MSI2 recombinant protein
Product Synonym Gene Name	MSI2
Sequence	MEANGSQGTS GSANDSQHDP GKMFIGGLSW QTSPDSLRDY FSKFGEIREC MVMRDPTTKR SRGFGFVTFA DPASVDKVLG QPHHELDSKT IDPKVAFPRR AQPKMVTRTK KIFVGGLSAN TVVEDVKQYF EQFGKVEDAM LMFDKTTNRH RGFGFVTFEN EDVVEKVCEI HFHEINNKMV ECKKAQPKEV MFPPGTRGRA RGLPYTMDAF MLGMGMLGYP NFVATYGRGY PGFAPSYGYQ FPGFPAAAYG PVAAAAVAAA RGSGSNPARP GGFPGANSPG PVADLYGPAS QDSGVGNYIS AASPQPGSGF GHGIAGPLIA TAFTNGYH
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	17,238 Da
Sequence Positions	1-328, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	607897
3D Structure	ModBase 3D Structure for Q96DH6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MSI2 recombinant protein	This gene encodes a protein containing two conserved tandem RNA recognition motifs. Similar proteins in other species function as RNA-binding proteins and play central roles in posttranscriptional gene regulation. Two transcript variants encoding distinct isoforms have been identified for this gene.
Other Notes	Small volumes of MSI2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MSI2 purchase	MBS1404305 is a recombinant protein targeting MSI2. Also known as Recombinant Human RNA-binding protein Musashi homolog 2 (MSI2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MSI2. It may not necessarily be applicable to this product.

NCBI GI #	20373175
NCBI GeneID	124540

NCBI Accession #	NP_620412.1
UniProt Primary Accession #	Q96DH6
UniProt Secondary Accession #	Q7Z6M7; Q8N9T4
UniProt Related Accession #	Q96DH6
GenBank Nucleotide #	NM_138962.3
NCBI Official Full Name	RNA-binding protein Musashi homolog 2 isoform a
NCBI Official Synonym Full Names	musashi RNA binding protein 2
NCBI Official Symbol	MSI2
NCBI Official Synonym Symbols	MSI2H
UniProt Protein Name	RNA-binding protein Musashi homolog 2
Protein Family	RNA-binding protein
UniProt Gene Name	MSI2
UniProt Synonym Gene Names	Musashi-2
NCBI Protein Information	RNA-binding protein Musashi homolog 2
NCBI Summary for MSI2	This gene encodes an RNA-binding protein that is a member of the Musashi protein family. The encoded protein is transcriptional regulator that targets genes involved in development and cell cycle regulation. Mutations in this gene are associated with poor prognosis in certain types of cancers. This gene has also been shown to be rearranged in certain cancer cells. [provided by RefSeq, Apr 2016]
UniProt Comments for MSI2	RNA binding protein that regulates the expression of target mRNAs at the translation level. May play a role in the proliferation and maintenance of stem cells in the central nervous system ().
Research Articles on MSI2	**1.** MSI2 expression was markedly increased in both PDAC cell lines and human PDAC specimens, and high MSI2 expression was associated with poor prognosis for PDAC. Forced MSI2 expression promoted PDAC proliferation, migration, and invasion in vitro and growth and metastasis in vivo, whereas knockdown of MSI2 expression did the opposite. Dysregulated KLF4/MSI2 signaling promotes PDAC progression and metastasis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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