Far Upstream Element-Binding Protein 1 (FUBP1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Far upstream element-binding protein 1 (FUBP1), Recombinant Protein
Full Product Name	Recombinant Human Far upstream element-binding protein 1 (FUBP1)
Product Gene Name	FUBP1 recombinant protein
Product Synonym Gene Name	FUBP1
Sequence	ADYSTVPPPS SGSAGGGGGG GGGGGVNDAF KDALQRARQI AAKIGGDAGT SLNSNDYGYG GQKRPLEDGD QPDAKKVAPQ NDSFGTQLPP MHQQQSRSVM TEEYKVPDGM VGFIIGRGGE QISRIQQESG CKIQIAPDSG GLPERSCMLT GTPESVQSAK RLLDQIVEKG RPAPGFHHGD GPGNAVQEIM IPASKAGLVI GKGGETIKQL QERAGVKMVM IQDGPQNTGA DKPLRITGDP YKVQQAKEMV LELIRDQGGF REVRNEYGSR IGGNEGIDVP IPRFAVGIVI GRNGEMIKKI QNDAGVRIQF KPDDGTTPER IAQITGPPDR CQHAAEIITD LLRSVQAGNP GGPGPGGRGR GRGQGNWNMG PPGGLQEFNF IVPTGKTGLI IGKGGETIKS ISQQSGARIE LQRNPPPNAD PNMKLFTIRG TPQQIDYARQ LIEEKIGGPV NPLGPPVPHG PHGVPGPHGP PGPPGPGTPM GPYNPAPYNP GPPGPAPHGP PAPYAPQGWG NAYPHWQQQA PPDPAKAGTD PNSAAWAAYY AHYYQQQAQP PPAAPAGAPT TTQTNGQGDQ QNPAPAGQVD YTKAWEEYYK KMGQAVPAPT GAPPGGQPDY SAAWAEYYRQ QAAYYAQTSP QGMPQHPPAP QGQ
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	68,605 Da
Sequence Positions	2-644, 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	603444
3D Structure	ModBase 3D Structure for Q96AE4
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FUBP1 recombinant protein	This gene encodes a ssDNA binding protein that activates the far upstream element (FUSE) of c-myc and stimulates expression of c-myc in undifferentiated cells. Regulation of FUSE by FUBP occurs through single-strand binding of FUBP to the non-coding strand. This protein has been shown to function as an ATP-dependent DNA helicase.
Other Notes	Small volumes of FUBP1 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 FUBP1 purchase	MBS1480821 is a recombinant protein targeting FUBP1. Also known as Recombinant Human Far upstream element-binding protein 1 (FUBP1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FUBP1. It may not necessarily be applicable to this product.

NCBI GI #	742670570
NCBI GeneID	8880
NCBI Accession #	NP_001290362.1
UniProt Primary Accession #	Q96AE4
UniProt Secondary Accession #	Q12828
UniProt Related Accession #	Q96AE4
GenBank Nucleotide #	NM_001303433.1
NCBI Official Full Name	far upstream element-binding protein 1 isoform 1
NCBI Official Synonym Full Names	far upstream element binding protein 1
NCBI Official Symbol	FUBP1
NCBI Official Synonym Symbols	FBP; FUBP; hDH V
UniProt Protein Name	Far upstream element-binding protein 1
UniProt Synonym Protein Names	DNA helicase V; hDH V
Protein Family	Far upstream element-binding protein
UniProt Gene Name	FUBP1
UniProt Synonym Gene Names	FBP; FUSE-binding protein 1; hDH V
NCBI Protein Information	far upstream element-binding protein 1
NCBI Summary for FUBP1	The protein encoded by this gene is a single stranded DNA-binding protein that binds to multiple DNA elements, including the far upstream element (FUSE) located upstream of c-myc. Binding to FUSE occurs on the non-coding strand, and is important to the regulation of c-myc in undifferentiated cells. This protein contains three domains, an amphipathic helix N-terminal domain, a DNA-binding central domain, and a C-terminal transactivation domain that contains three tyrosine-rich motifs. The N-terminal domain is thought to repress the activity of the C-terminal domain. This protein is also thought to bind RNA, and contains 3'-5' helicase activity with in vitro activity on both DNA-DNA and RNA-RNA duplexes. Aberrant expression of this gene has been found in malignant tissues, and this gene is important to neural system and lung development. Binding of this protein to viral RNA is thought to play a role in several viral diseases, including hepatitis C and hand, foot and mouth disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
UniProt Comments for FUBP1	Regulates MYC expression by binding to a single-stranded far-upstream element (FUSE) upstream of the MYC promoter. May act both as activator and repressor of transcription.
Research Articles on FUBP1	**1.** These results suggest that the interference with the FUBP1/FUSE interaction as a further molecular mechanism that, in addition to the inactivation of TOP1, may contribute to the therapeutic potential of camptothecin/SN-38.
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