Transcription Factor IIIB 50 Kda Subunit (BRF2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor IIIB 50 kDa subunit (BRF2), Recombinant Protein
Full Product Name	Recombinant Human Transcription factor IIIB 50 kDa subunit (BRF2)
Product Gene Name	BRF2 recombinant protein
Product Synonym Gene Name	BRF2
Sequence	MPGRGRCPDC GSTELVEDSH YSQSQLVCSD CGCVVTEGVL TTTFSDEGNL REVTYSRSTG ENEQVSRSQQ RGLRRVRDLC RVLQLPPTFE DTAVAYYQQA YRHSGIRAAR LQKKEVLVGC CVLITCRQHN WPLTMGAICT LLYADLDVFS STYMQIVKLL GLDVPSLCLA ELVKTYCSSF KLFQASPSVP AKYVEDKEKM LSRTMQLVEL ANETWLVTGR HPLPVITAAT FLAWQSLQPA DRLSCSLARF CKLANVDLPY PASSRLQELL AVLLRMAEQL AWLRVLRLDK RSVVKHIGDL LQHRQSLVRS AFRDGTAEVE TREKEPPGWG QGQGEGEVGN NSLGLPQGKR PASPALLLPP CMLKSPKRIC PVPPVSTVTG DENISDSEIE QYLRTPQEVR DFQRAQAARQ AATSVPNPP
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	44,104 Da
Sequence Positions	1-419, 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	607013
3D Structure	ModBase 3D Structure for Q9HAW0
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BRF2 recombinant protein	This gene encodes one of the multiple subunits of the RNA polymerase III transcription factor complex required for transcription of genes with promoter elements upstream of the initiation site. The product of this gene, a TFIIB-like factor, is directly recruited to the TATA-box of polymerase III small nuclear RNA gene promoters through its interaction with the TATA-binding protein.
Other Notes	Small volumes of BRF2 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 BRF2 purchase	MBS1312034 is a recombinant protein targeting BRF2. Also known as Recombinant Human Transcription factor IIIB 50 kDa subunit (BRF2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRF2. It may not necessarily be applicable to this product.

NCBI GI #	22035562
NCBI GeneID	55290
NCBI Accession #	NP_060780.2
UniProt Primary Accession #	Q9HAW0
UniProt Secondary Accession #	Q9H2Y3; Q9H3B3; Q9NUY6; B2RD62; B4DFZ6; D3DSW6
UniProt Related Accession #	Q9HAW0
GenBank Nucleotide #	NM_018310.3
NCBI Official Full Name	transcription factor IIIB 50 kDa subunit
NCBI Official Synonym Full Names	BRF2, RNA polymerase III transcription initiation factor subunit
NCBI Official Symbol	BRF2
NCBI Official Synonym Symbols	BRFU; TFIIIB50
UniProt Protein Name	Transcription factor IIIB 50 kDa subunit
UniProt Synonym Protein Names	B-related factor 2; BRF-2; hBRFU
Protein Family	Transcription factor
UniProt Gene Name	BRF2
UniProt Synonym Gene Names	; BRF-2
NCBI Protein Information	transcription factor IIIB 50 kDa subunit
UniProt Comments for BRF2	General activator of RNA polymerase III transcription. Factor exclusively required for RNA polymerase III transcription of genes with promoter elements upstream of the initiation sites (PubMed:11040218, PubMed:11121026, PubMed:11564744, PubMed:26638071). Contributes to the regulation of gene expression; functions as activator in the absence of oxidative stress (PubMed:26638071). Down-regulates expression of target genes in response to oxidative stress (PubMed:26638071). Overexpression protects cells against apoptosis in response to oxidative stress (PubMed:26638071).
Research Articles on BRF2	**1.** Data indicate the crystal structure of a Brf2-TBP-Bdp1 complex bound to a DNA promoter.
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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