Cyclic AMP-Dependent Transcription Factor ATF-6 Beta (ATF6B) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cyclic AMP-dependent transcription factor ATF-6 beta (Atf6b), Recombinant Protein
Full Product Name	Recombinant Mouse Cyclic AMP-dependent transcription factor ATF-6 beta (Atf6b)
Product Gene Name	Atf6b recombinant protein
Product Synonym Gene Name	Atf6b; Crebl1
Product Synonym Names	Cyclic AMP-dependent transcription factor ATF-6 beta; cAMP-dependent transcription factor ATF-6 beta; Activating transcription factor 6 beta; ATF6-beta; cAMP response element-binding protein-related protein; Creb-rp; cAMP-responsive element-binding protei
Sequence	AELMLLSEI ADPTRFFTDN LLSPEDWDST LYSGLDEVAE EQAQLFRCVE QDVPFDSSSL DVGMDVSPPE PPWDPLPIFP DLQVKSEPSS PCSSSSLSSE SSHLSTEPPS QVPGVGEVLH VKMESLAPPL CLLGDDPASP FETVQITVGS ASDDLSDIQT KLEPASPSSS VHSEASLLSA DSPSQPFIGE EVLEVKTESP SPPGCLLWDV PASSLGAVQI SMGPSPDSSS GKAPATRKPP LQPKPVVLTT VPVPPRAGPT SAAVLLQPLV QQPAVSPVVL IQGAIRVQPE GPAPAAPRPE RKSIVPAPMP GNSCPPEVDA KLLKRQQRMI KNRESACQSR RKKKEYLQGL EARLQAVLAD NQQLRRENAA LRRRLEALLA ENSGLKLGSG NRK
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	76,007 Da
Sequence Positions	2-393
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.
3D Structure	ModBase 3D Structure for O35451
Species	Mus musculus (Mouse)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Atf6b recombinant protein	MBS1125372 is a recombinant protein targeting Atf6b. Also known as Recombinant Mouse Cyclic AMP-dependent transcription factor ATF-6 beta (Atf6b). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Atf6b 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Atf6b. It may not necessarily be applicable to this product.

NCBI GI #	20137260

NCBI GeneID	12915
NCBI Accession #	O35451.1
UniProt Primary Accession #	O35451
UniProt Related Accession #	O35451
NCBI Official Full Name	Cyclic AMP-dependent transcription factor ATF-6 beta
NCBI Official Synonym Full Names	activating transcription factor 6 beta
NCBI Official Symbol	Atf6b
NCBI Official Synonym Symbols	Crebl1; Creb-rp; AA617266; ATF6beta
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-6 beta
UniProt Synonym Protein Names	Activating transcription factor 6 beta; ATF6-beta; cAMP response element-binding protein-related protein; Creb-rp; cAMP-responsive element-binding protein-like 1Cleaved into the following chain:Processed cyclic AMP-dependent transcription factor ATF-6 beta
Protein Family	Cyclic AMP-dependent transcription factor
UniProt Gene Name	Atf6b
UniProt Synonym Gene Names	Crebl1; cAMP-dependent transcription factor ATF-6 beta; ATF6-beta; Creb-rp
UniProt Entry Name	ATF6B_MOUSE
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-6 beta; ATF6-beta; cAMP responsive element binding protein-like 1; cAMP-dependent transcription factor ATF-6 beta; cAMP-responsive element-binding protein-like 1; cAMP response element binding protein-related protein; cAMP response element-binding protein-related protein
UniProt Comments for Atf6b	ATF6B: Transcriptional factor that acts in the unfolded protein response (UPR) pathway by activating UPR target genes induced during ER stress. Binds DNA on the 5'-CCAC[GA]-3' half of the ER stress response element (ERSE) (5'-CCAATN(9)CCAC[GA]-3') when NF-Y is bound to ERSE. Belongs to the bZIP family. ATF subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Transcription factor Cellular Component: endoplasmic reticulum membrane; membrane; endoplasmic reticulum; integral to membrane; endomembrane system; integral to endoplasmic reticulum membrane; intracellular; nucleus Molecular Function: DNA binding; sequence-specific DNA binding; transcription factor activity Biological Process: regulation of transcription from RNA polymerase II promoter; transcription, DNA-dependent; regulation of transcription, DNA-dependent; unfolded protein response; response to unfolded protein
Research Articles on Atf6b	**1.** Toxoplasma virulence factor ROP18 inactivates host innate and adaptive immune responses by targeting ATF6beta.
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