Transcription Factor Ap-2-Epsilon (TFAP2E) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor AP-2-epsilon (Tfap2e), Recombinant Protein
Full Product Name	Recombinant Mouse Transcription factor AP-2-epsilon (Tfap2e)
Product Gene Name	Tfap2e recombinant protein
Product Synonym Gene Name	Tfap2e
Sequence	MLVHTYSAME RPDGLGAAAG GTRLSSLPQA AYGPAPPLCH TPAASATADY HPPYFPPPYP QAPLPYGQGP DATAAFPHLA ADPYGGLAPL AQPQPPQAAW AAPRAAARAH DEPPGLLAPP ARALGLDPRR DYAAAVPRLL HSLADGAHGL ADAPLGLPGL AEPPGLEELQ AIDDPGMSLL DQSVIKKVPI PSKAGSLSTL ALSKDSLVGG ISNPSEVFCS VPGRLSLLSS TSKYKVTVGE VQRRLSPPEC LNASLLGGVL RRAKSKNGGR CLRERLEKIG LNLPAGRRKA ANVTLLTSLV EGEAVHLARD FGYVCETEFP AKAAAEYLCR QHADPGELHS RKSMLLAAKQ ICKEFADLMA QDRSPLGNSR PALILEPGVQ SCLTHFSLIT HGFGGPAICA ALTAFQNYLL ESLKGLEKMF LSGAGGGHGE SKASEKDTKH RK
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	46,283 Da
Sequence Positions	1-442, 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.
3D Structure	ModBase 3D Structure for Q6VUP9
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Tfap2e recombinant protein	MBS1376272 is a recombinant protein targeting Tfap2e. Also known as Recombinant Mouse Transcription factor AP-2-epsilon (Tfap2e). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Tfap2e 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 Tfap2e. It may not necessarily be applicable to this product.

NCBI GI #	120444920
NCBI GeneID	332937
NCBI Accession #	NP_945198.2
UniProt Primary Accession #	Q6VUP9

UniProt Secondary Accession #	A2A883
UniProt Related Accession #	Q6VUP9
GenBank Nucleotide #	NM_198960.2
NCBI Official Full Name	transcription factor AP-2-epsilon
NCBI Official Synonym Full Names	transcription factor AP-2, epsilon
NCBI Official Symbol	Tfap2e
NCBI Official Synonym Symbols	AP-2e; Tcfap2e; AI505200
UniProt Protein Name	Transcription factor AP-2-epsilon
UniProt Synonym Protein Names	Activating enhancer-binding protein 2-epsilon
Protein Family	Transcription factor
UniProt Gene Name	Tfap2e
UniProt Synonym Gene Names	Tcfap2e; AP2-epsilon
NCBI Protein Information	transcription factor AP-2-epsilon
UniProt Comments for Tfap2e	Sequence-specific DNA-binding protein that interacts with inducible viral and cellular enhancer elements to regulate transcription of selected genes. AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions including proper eye, face, body wall, limb and neural tube development. They also suppress a number of genes including MCAM/MUC18, C/EBP alpha and MYC. AP-2-epsilon may play a role in the development of the CNS and in cartilage differentiation.
Research Articles on Tfap2e	**1.** We reveal a novel role of AP-2epsilon in the regulation of gene expression in articular chondrocytes, as well as in osteoarthritis development, through modulation of Mmp13 expression and activity.
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