Myocyte-Specific Enhancer Factor 2 (MEF2) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Myocyte-specific enhancer factor 2 (Mef2), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Myocyte-specific enhancer factor 2 (Mef2), partial
Product Gene Name	Mef2 recombinant protein
Sequence	MGRKKIQISR ITDERNRQVT FNKRKFGVMK KAYELSVLCD CEIALIIFSS SNKLYQYAST DMDRVLLKYT EYNEPHESLT NKNIIEKENK NGVMSPDSPE AETDYTLTPR TEAKYNKIDE EFQNMMQRNQ MAIGGAGAPR QLPNSSYTLP VSVPVP
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	53,294 Da
Sequence Positions	1-156aa; Partial
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 P40791
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mef2 recombinant protein	MBS1077934 is a recombinant protein targeting Mef2. Also known as Recombinant Drosophila melanogaster Myocyte-specific enhancer factor 2 (Mef2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Mef2 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 Mef2. It may not necessarily be applicable to this product.

NCBI GI #	17136960
NCBI GeneID	36032
NCBI Accession #	NP_477018.1
UniProt Primary Accession #	P40791
UniProt Secondary Accession #	Q24394; Q8MT88; Q95R70; Q95RW1; Q9U5I8; A1Z821
UniProt Related Accession #	P40791

GenBank Nucleotide #	NM_057670.5
NCBI Official Full Name	myocyte enhancer factor 2, isoform C
NCBI Official Synonym Full Names	Myocyte enhancer factor 2
NCBI Official Symbol	Mef2
NCBI Official Synonym Symbols	22.21; BEST:SD04091; C; CG1429; D-mef2; D-Mef2; D-MEF2; DMedf2; Dmef; Dmef-2; DMef-2; DMEF-2; dmef2; dMef2; dMEf2; dMEF2; Dmef2; DMef2; DMEF2; DmelCG1429; l(2)46CFr; mb247; mef; Mef; mef-2; Mef-2; MEF-2; mef2; MEF2; mef2c; SD04091
UniProt Protein Name	Myocyte-specific enhancer factor 2
UniProt Synonym Protein Names	MADS domain transcription factor
Protein Family	Myocyte-specific enhancer factor
UniProt Gene Name	Mef2
UniProt Synonym Gene Names	D-mef2
NCBI Protein Information	CG1429 gene product from transcript CG1429-RF
UniProt Comments for Mef2	Transcription factor that could be a key player in early mesoderm differentiation and may be required for subsequent cell fate specifications within the somatic and visceral/heart mesodermal layers (PubMed:7839146, PubMed:8052612, PubMed:8202544). Essential for myoblast fusion and consequently muscle formation in adults (PubMed:25797154). During embryonic and pupal development, binds to the enhancer of the myoblast fusion gene sing and activates its transcription (PubMed:25797154).
Research Articles on Mef2	**1.** The authors show that loss of frataxin homolog (fh) in Drosophila leads to iron toxicity, which in turn induces sphingolipid synthesis and ectopically activates 3-phosphoinositide dependent protein kinase-1 (Pdk1) and myocyte enhancer factor-2 (Mef2).
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