Recombinant MEF2 protein (His tag)

Catalog Number	532655
Synonyms	D-mef2; MADS domain transcription factor
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P40791
Gene ID	36032
Molecular Weight	Predictes a molecular mass of 16.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	1-128
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-128 aa (P40791) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Drosophila melanogaster Myocyte-specific enhancer factor 2 (D-mef2) fragment (amino acids 1-128), encompassing the complete MADS-box domain. This high-purity protein is ideal for studying the DNA-binding capabilities and transcriptional regulation functions of this key mesodermal differentiation factor. Myocyte-specific enhancer factor 2 (D-mef2) is a crucial MADS domain transcription factor that serves as a key regulator in early mesoderm differentiation and subsequent cell fate specification within somatic and visceral/heart mesodermal layers. The protein plays an essential role in myoblast fusion and muscle formation during both embryonic and pupal development. D-mef2 functions by binding to enhancer regions of target genes, such as the myoblast fusion gene sing, and activating their transcription. As a nuclear-localized transcription factor, it orchestrates critical developmental processes that are fundamental to muscle development and mesodermal patterning in Drosophila melanogaster.