# Recombinant MEF2A protein (His tag)

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| **Catalog Number** | 544823 |
| **Synonyms** | Serum response factor-like protein 1 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q02078 |
| **Molecular Weight** | Predictes a molecular mass of 16.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band. |

## Product Information

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| **Sequence Region** | 1-128 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >89%, 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 (Q02078) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Myocyte-specific enhancer factor 2A (MEF2A) Fragment (1-128) is a high-purity protein designed for studying the MADS-box domain. This fragment serves as an essential tool for researchers investigating transcriptional regulation, muscle-specific gene expression, and cellular differentiation pathways.<br>Myocyte-specific enhancer factor 2A (MEF2A) is a transcriptional activator that binds to the MEF2 element (5'-YTA[AT](4)TAR-3') present in numerous muscle-specific genes. It plays critical roles in skeletal and cardiac muscle development, neuronal differentiation, and cellular survival through p38 MAPK signaling. MEF2A also regulates growth factor- and stress-induced genes and has been implicated in controlling cell growth and apoptosis. Localized exclusively in the nucleus, it associates with chromatin at promoter regions such as ZNF16. The provided fragment (1-128) encompasses the MADS-box domain (residues 3-57), enabling focused studies on DNA binding and transcriptional activation mechanisms. |