Recombinant MEF2B protein (His tag)

Catalog Number	547178
Synonyms	RSRFR2; Serum response factor-like protein 2
Species	Human
Expression System	E. coli
Accession	Q02080
Molecular Weight	Predictes a molecular mass of 12.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-93
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-93 aa (Q02080) 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 Human Myocyte-specific enhancer factor 2B (MEF2B) Fragment (1-93) is a high-purity protein designed for studying transcriptional regulation. This fragment encompasses the essential MADS-box domain, making it an ideal tool for investigating DNA binding and activation mechanisms in muscle-specific and growth factor-related gene expression. Myocyte-specific enhancer factor 2B (MEF2B) is a transcriptional activator in humans that binds specifically to the MEF2 element (5'-YTA[AT](4)TAR-3') present in numerous muscle-specific genes. It functions to activate transcription through this element and is implicated in muscle-specific and growth factor-related transcriptional processes. The protein is localized to the nucleus, where it exerts its regulatory activities. The provided fragment (amino acids 1-93) includes the MADS-box domain (residues 3-57), which is critical for DNA binding and protein-protein interactions, enabling focused research on this functional region.