Recombinant DMD5 protein (His tag)

Catalog Number	534162
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q19291
Gene ID	184287
Molecular Weight	Predictes a molecular mass of 12.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-97
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-97 aa (Q19291) 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	This recombinant protein product features a stable and soluble fragment (residues 1-97) of the Doublesex- and mab-3-related transcription factor dmd-5 from Caenorhabditis elegans. Designed for structural and biochemical studies, this fragment supports research into sex-specific synaptic pruning and transcription factor mechanisms. The full-length Doublesex- and mab-3-related transcription factor dmd-5 (UniProt ID: Q19291) functions as a transcription factor and is essential for sex-specific synaptic pruning in Caenorhabditis elegans. It operates downstream of the sex-determining transformer protein tra-1, contributing to neural development and sexual differentiation. The protein is localized to the nucleus, where it regulates gene expression critical for these processes. This fragment was computationally selected to ensure stability and solubility, enabling detailed analysis of its structural and functional properties.