Recombinant SYM2 protein (His tag)

Catalog Number	533732
Synonyms	Synthetic lethal with mec-8 protein 2
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q22708
Gene ID	174461
Molecular Weight	Predictes a molecular mass of 54.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 58 kDa band.

Product Information

Sequence Region	1-473
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 1-473 aa (Q22708) 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 RNA-binding protein sym-2 (Synthetic lethal with mec-8 protein 2) fragment (residues 1-473) from Caenorhabditis elegans, encompassing the full RRM 1 and RRM 2 domains. This high-purity protein is an essential tool for investigating mRNA splicing mechanisms and domain-specific functions in embryonic development. RNA-binding protein sym-2 is a nucleus-localized mRNA splicing factor that regulates alternative splicing of numerous genes during embryogenesis. It plays a critical role in generating embryo-specific isoforms, as demonstrated by its function in Caenorhabditis elegans where it contributes to proper embryonic development through splicing regulation. The full-length protein's nuclear localization and splicing regulatory activity make it a key subject for studying post-transcriptional gene regulation in developmental biology.