Recombinant ASD2 protein (His tag)

Catalog Number	532501
Synonyms	Alternative splicing defective protein 2
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	G5EFF1
Gene ID	188703
Molecular Weight	Predictes a molecular mass of 23.15 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	69-256
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 69-256 aa (G5EFF1) 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 asd-2 fragment (aa 69-256) from Caenorhabditis elegans, encompassing the essential KH domain. This high-purity fragment is ideal for investigating alternative splicing mechanisms and RNA-protein interactions in muscle-specific gene regulation. The full-length RNA-binding protein asd-2 is a nucleus-localized regulator of alternative splicing in C. elegans, specifically recognizing the 5'-NACUAAY-N(1,20)-UAAY-3' consensus sequence in pre-mRNA introns. It plays a critical role in mutually exclusive alternative splicing, coordinating with protein partners like sup-12 to ensure tissue-specific isoform expression. Key targets include let-2 and unc-60 genes, where asd-2 promotes muscle-specific isoform selection during larval and adult development by facilitating intron removal and splicing switches. This positions asd-2 as a fundamental component in post-transcriptional regulation of muscle function.