Recombinant ESS2 protein (His tag)

Catalog Number	534989
Synonyms	ES2 similar protein 2
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P34420
Gene ID	176200
Molecular Weight	Predictes a molecular mass of 18.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	165-318
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 165-318 aa (P34420) 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 Splicing factor ESS-2 (ES2 similar protein 2) fragment (residues 165-318) from Caenorhabditis elegans. This 154-amino acid fragment is designed for structural and biochemical studies, offering a stable and soluble unit ideal for investigating pre-mRNA splicing regulation mechanisms. Splicing factor ESS-2 is a nuclear protein that plays a critical role in regulating pre-mRNA splicing, as evidenced by experimental data (PubMed:25194163). Located exclusively in the nucleus, it contributes to essential gene expression processes by modulating RNA processing. The selected fragment (165-318) represents a computationally optimized region for enhanced solubility and stability, facilitating research into splicing mechanisms without functional domains, making it valuable for structural analysis and interaction studies.