Recombinant SNPC4 protein (His tag)

Catalog Number	534546
Synonyms	SNAPc subunit 4 homolog
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P91868
Gene ID	172711
Molecular Weight	Predictes a molecular mass of 51.23 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 53 kDa band.

Product Information

Sequence Region	39-457
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 39-457 aa (P91868) 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 SNAPc subunit 4 homolog (snpc-4) fragment from Caenorhabditis elegans, encompassing residues 39-457. This 419-amino acid construct contains all four Myb-like DNA-binding domains, providing an ideal tool for investigating transcriptional regulation mechanisms in small nuclear RNA gene expression. The full-length SNAPc subunit 4 homolog functions as a critical transcription factor that binds promoter regions of both RNA polymerase II and III small-nuclear RNA genes, type 3 RNA polymerase III non-coding RNA genes, small nucleolar RNAs, and transfer RNA genes. It is essential for the expression of mature 21U-RNAs. The protein localizes to the nucleus with a diffuse distribution and concentrates in specific nuclear foci within proliferating and pachytene germ cells, with this focal localization being dependent on prde-1 activity. The provided fragment (39-457) specifically contains the complete Myb-like 1, HTH myb-type 1, Myb-like 2, and HTH myb-type 2 domains, enabling focused study of DNA-binding functions and transcriptional activation mechanisms.