Recombinant SRRT protein (His tag)

Catalog Number	536231
Synonyms	Arsenite-resistance protein 2 homolog
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q966L5
Gene ID	171996
Molecular Weight	Predictes a molecular mass of 43.07 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	261-625
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 261-625 aa (Q966L5) 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 Serrate RNA effector molecule homolog (Arsenite-resistance protein 2 homolog) fragment (residues 261-625) from Caenorhabditis elegans. This 365-amino acid fragment is a stable, soluble unit ideal for structural and biochemical studies, supporting research in RNA-mediated gene silencing mechanisms. The full-length Serrate RNA effector molecule homolog (encoded by the srrt-1 gene) functions as a mediator between the cap-binding complex (CBC) and the primary microRNAs (miRNAs) processing machinery. It contributes to the stability and delivery of capped primary miRNA transcripts to the primary miRNA processing complex, thereby playing a critical role in RNA-mediated gene silencing (RNAi) by miRNAs. The protein is localized to the nucleus, where it facilitates these essential regulatory processes in gene expression.