Recombinant SUMV2 protein (His tag)

Catalog Number	536392
Synonyms	Suppressor of synthetic multivulva protein 2
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q22992
Gene ID	24104625
Molecular Weight	Predictes a molecular mass of 47.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	569-973
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 569-973 aa (Q22992) 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 Protein sumv-2 (Suppressor of synthetic multivulva protein 2) fragment (residues 569-973) is a high-quality, stable, and soluble protein designed for structural and biochemical studies. This 405-amino acid fragment, derived from Caenorhabditis elegans, represents a key functional unit ideal for investigating mechanisms of vulval development. Protein sumv-2, encoded by the sumv-2 gene in Caenorhabditis elegans, plays a critical role in regulating vulval development by influencing the activity of genes involved in this biological process. As a suppressor of synthetic multivulva phenotypes, it contributes to precise developmental patterning, with functional insights supported by experimental evidence (PubMed:24882710). The selected fragment (569-973) was computationally optimized to ensure stability and solubility, enabling reliable use in research applications without requiring subcellular localization data.