Recombinant RUXF protein (His tag)

Catalog Number	534591
Synonyms	snRNP-F; Membrane-associated protein Deb-B; Sm protein F; Sm-F; SmF
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q24297
Gene ID	36314
Molecular Weight	Predictes a molecular mass of 11.39 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	1-88
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 1-88 aa (Q24297) 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 Drosophila melanogaster Small nuclear ribonucleoprotein F (snRNP-F) fragment (residues 1-88), encompassing the complete Sm functional domain. This high-purity protein is an essential research tool for investigating pre-mRNA splicing mechanisms and spliceosome assembly. Small nuclear ribonucleoprotein F (snRNP-F) serves as a core component of spliceosomal U1, U2, U4, and U5 small nuclear ribonucleoproteins (snRNPs), which are fundamental building blocks of the spliceosome. This protein plays a critical role in pre-mRNA splicing processes, contributing to gene expression regulation. The full-length protein localizes to both the nucleus and cytoplasm (cytosol), reflecting its involvement in cellular RNA processing pathways. The provided fragment (1-88) specifically contains the complete Sm domain, enabling focused studies on domain-specific functions in RNA binding and snRNP assembly.