Recombinant SAM50 protein (His tag)

Catalog Number	536610
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9V784
Gene ID	36675
Molecular Weight	Predictes a molecular mass of 50.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 51 kDa band.

Product Information

Sequence Region	1-443
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 1-443 aa (Q9V784) 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 SAM50-like protein CG7639 fragment (residues 1-443) from Drosophila melanogaster, encompassing the complete POTRA domain. This high-purity protein is an essential tool for investigating mitochondrial cristae structure maintenance and outer membrane protein assembly mechanisms. The SAM50-like protein CG7639 is a mitochondrial outer membrane multi-pass membrane protein that plays a critical role in maintaining mitochondrial cristae architecture. Located specifically in the mitochondrial outer membrane, this protein contributes to the structural integrity and functional organization of mitochondrial membranes. The full-length protein's conserved function in cristae maintenance, as evidenced by homology to UniProtKB:Q9Y512, underscores its importance in mitochondrial biology and cellular energy production pathways.