Recombinant PFD4 protein (His tag)

Catalog Number	536257
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VRL3
Gene ID	38615
Molecular Weight	Predictes a molecular mass of 17.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-138
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 1-138 aa (Q9VRL3) 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 Probable Prefoldin Subunit 4 (Pfdn4) Fragment (1-138) from Drosophila melanogaster - A highly stable and soluble protein fragment ideal for structural biology and biochemical studies of chaperone-mediated protein folding mechanisms. Probable Prefoldin Subunit 4 is a cytosolic chaperone that binds specifically to cytosolic chaperonin (c-CPN) and facilitates the transfer of target proteins to it. This protein plays a crucial role in protein folding by binding to nascent polypeptide chains and promoting proper folding in environments where multiple competing pathways for nonnative proteins exist. The selected fragment (amino acids 1-138) represents a computationally optimized stable and soluble unit that maintains functional relevance for research applications investigating protein folding pathways and chaperone mechanisms.