Recombinant TIM10 protein (His tag)

Catalog Number	535945
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9W2D6
Gene ID	37478
Molecular Weight	Predictes a molecular mass of 12.23 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-92
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 1-92 aa (Q9W2D6) 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 Mitochondrial import inner membrane translocase subunit Tim10 (fragment 1-92) from Drosophila melanogaster is a high-purity protein fragment ideal for studying mitochondrial protein import mechanisms. This stable, soluble fragment represents a key functional unit of the Tim10 chaperone, enabling structural and biochemical investigations into mitochondrial intermembrane space trafficking. The full-length Tim10 protein functions as a crucial mitochondrial intermembrane chaperone that facilitates the import and insertion of multi-pass transmembrane proteins into the inner mitochondrial membrane. Located in the mitochondrial inner membrane as a peripheral membrane protein facing the intermembrane space, Tim10 protects hydrophobic precursor proteins from aggregation and guides them through the mitochondrial intermembrane space. Additionally, it plays a role in transferring beta-barrel precursors from the TOM complex to the outer membrane's sorting and assembly machinery (SAM complex), making it essential for maintaining mitochondrial membrane protein homeostasis and integrity.