Recombinant RT25 protein (His tag)

Catalog Number	536633
Synonyms	28S ribosomal protein S25, mitochondrial; MRP-S25; S25mt
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VY28
Gene ID	32395
Molecular Weight	Predictes a molecular mass of 20.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-167
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 1-167 aa (Q9VY28) 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 Ribosomal Subunit Protein mS25 (mRpS25) Fragment (1-167) is a stable, soluble protein fragment designed for structural and biochemical studies. This product represents a computationally optimized region of the mitochondrial ribosomal protein, ideal for investigating mitochondrial translation mechanisms. The full-length Small Ribosomal Subunit Protein mS25 (also known as MRP-S25 or S25mt) is a mitochondrial protein encoded by the mRpS25 gene in Drosophila melanogaster. According to UniProt annotation (Q9VY28), it localizes to the mitochondrion, indicating its role in mitochondrial ribosomal function. As a component of the mitochondrial small ribosomal subunit, this protein is essential for mitochondrial protein synthesis, which supports cellular energy production and metabolic regulation. The provided fragment (residues 1-167) encompasses the complete structural domain and was selected for its stability and solubility to facilitate experimental applications.