Recombinant RT26 protein (His tag)

Catalog Number	536803
Synonyms	28S ribosomal protein S26, mitochondrial; MRP-S26; S26mt
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VVN2
Gene ID	40001
Molecular Weight	Predictes a molecular mass of 24.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	33-225
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 33-225 aa (Q9VVN2) 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 mS26 (28S ribosomal protein S26, mitochondrial) fragment (residues 33-225). This 193-amino acid fragment was computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies and biochemical characterization of mitochondrial ribosomal components. The full-length Small ribosomal subunit protein mS26 (also known as MRP-S26 or S26mt) is a mitochondrial protein encoded by the mRpS26 gene in Drosophila melanogaster. According to UniProt annotation (Q9VVN2), this protein is localized to the mitochondrion, indicating its essential role in mitochondrial ribosomal function. Mitochondrial ribosomes are specialized for synthesizing proteins within mitochondria, which are crucial for cellular energy production and metabolism. The selected fragment represents a stable, soluble unit that preserves key structural features while being optimized for experimental applications in research on mitochondrial protein synthesis and ribosomal biology.