Recombinant RT10 protein (His tag)

Catalog Number	536088
Synonyms	28S ribosomal protein S10, mitochondrial; MRP-S10; S10mt
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VFB2
Gene ID	41838
Molecular Weight	Predictes a molecular mass of 16.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	46-173
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 46-173 aa (Q9VFB2) 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 uS10m (28S ribosomal protein S10, mitochondrial) fragment (residues 46-173). This 128-amino acid fragment represents a stable, soluble domain computationally optimized for structural and biochemical studies of mitochondrial ribosome function. The full-length Small ribosomal subunit protein uS10m (also known as MRP-S10 or S10mt) is a mitochondrial ribosomal protein localized to the mitochondrion, as confirmed by UniProtKB evidence. As a component of the mitochondrial small ribosomal subunit, this protein plays an essential role in mitochondrial protein synthesis, which is critical for cellular energy production and mitochondrial function in Drosophila melanogaster.