Recombinant RT15 protein (His tag)

Catalog Number	534607
Synonyms	28S ribosomal protein S15, mitochondrial; MRP-S15; S15mt; DmMRPS15; Protein bonsai
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q8WTC1
Gene ID	37587
Molecular Weight	Predictes a molecular mass of 35.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	1-280
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-280 aa (Q8WTC1) 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 uS15m (MRP-S15), a 280-amino acid fragment representing a stable and soluble unit of this essential mitochondrial protein. This high-quality recombinant protein is ideal for structural studies and biochemical analyses of mitochondrial ribosome function. The full-length Small Ribosomal Subunit Protein uS15m (also known as MRP-S15, S15mt, or bonsai protein) is an essential component for gut mitochondrial activity in Drosophila melanogaster. Research indicates this mitochondrial protein may play a role in tissue-specific growth factor production, highlighting its importance in cellular energy metabolism and developmental processes. The protein is localized exclusively to the mitochondrion, where it functions as part of the mitochondrial ribosomal machinery critical for mitochondrial protein synthesis and overall organelle function.