Recombinant RT17 protein (His tag)

Catalog Number	536549
Synonyms	28S ribosomal protein S17, mitochondrial; MRP-S17; S17mt
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q11189
Gene ID	175912
Molecular Weight	Predictes a molecular mass of 20.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-160
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 1-160 aa (Q11189) 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 Small ribosomal subunit protein uS17m (28S ribosomal protein S17, mitochondrial) fragment (residues 1-160) from Caenorhabditis elegans. This high-quality fragment is engineered for stability and solubility, ideal for structural biology and biochemical studies of mitochondrial ribosome function. The full-length Small ribosomal subunit protein uS17m (also known as MRP-S17 or S17mt) is a mitochondrial ribosomal protein encoded by the mrps-17 gene in Caenorhabditis elegans. According to UniProt entry Q11189, this protein is localized to the mitochondrion, indicating its essential role in mitochondrial protein synthesis as part of the small ribosomal subunit. Mitochondrial ribosomal proteins are crucial for cellular energy production and metabolic regulation.