Recombinant RT07 protein (His tag)

Catalog Number	536419
Synonyms	28S ribosomal protein S7, mitochondrial; MRP-S7; S7mt
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q95Q11
Gene ID	190379
Molecular Weight	Predictes a molecular mass of 25.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	15-222
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 15-222 aa (Q95Q11) 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 uS7m (28S ribosomal protein S7, mitochondrial) fragment from Caenorhabditis elegans, encompassing residues 15-222. This fragment is a stable, soluble unit optimized for structural and biochemical studies, supporting mitochondrial ribosome research. The full-length Small ribosomal subunit protein uS7m, also known as MRP-S7 or S7mt, is a mitochondrial protein localized to the mitochondrion, as indicated by its subcellular location. It plays a critical role in the mitochondrial ribosome, contributing to protein synthesis within this organelle, which is essential for cellular energy production and function in organisms like Caenorhabditis elegans.