Recombinant RT14 protein (His tag)

Catalog Number	536694
Synonyms	40S ribosomal protein S14, mitochondrial; MRP-S14; S14mt
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P49391
Gene ID	174588
Molecular Weight	Predictes a molecular mass of 17.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	67-199
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 67-199 aa (P49391) 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 uS14m (40S ribosomal protein S14, mitochondrial) fragment from Caenorhabditis elegans, corresponding to residues 67-199. This stable and soluble fragment is ideal for structural studies and biochemical assays. The full-length Small ribosomal subunit protein uS14m (MRP-S14) is a mitochondrial ribosomal protein localized to the mitochondrion, as indicated by UniProtKB annotation. It plays a role in mitochondrial ribosome function, contributing to protein synthesis within mitochondria, which is essential for cellular energy production and metabolism.