Recombinant RT25 protein (His tag)

Catalog Number	536603
Synonyms	28S ribosomal protein S25, mitochondrial; MRP-S25; S25mt
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q9N361
Gene ID	176926
Molecular Weight	Predictes a molecular mass of 21.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-170
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 1-170 aa (Q9N361) 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 mS25 (28S ribosomal protein S25, mitochondrial) fragment (residues 1-170) from Caenorhabditis elegans. This stable and soluble fragment is specifically designed for structural and biochemical studies of mitochondrial ribosome function. The full-length Small ribosomal subunit protein mS25 (also known as MRP-S25 or S25mt) is a mitochondrial protein encoded by the mrps-25 gene in Caenorhabditis elegans. As indicated by its subcellular localization, this protein functions within the mitochondrion, where it serves as a component of the small subunit of the mitochondrial ribosome (mitoribosome). Mitochondrial ribosomes are essential for protein synthesis within mitochondria, playing a critical role in cellular energy production and mitochondrial function. The provided fragment (residues 1-170) represents a computationally selected stable domain suitable for experimental applications.