Recombinant RM24 protein (His tag)

Catalog Number	536013
Synonyms	39S ribosomal protein L24, mitochondrial; L24mt; MRP-L24
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P91353
Gene ID	172204
Molecular Weight	Predictes a molecular mass of 34.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	1-278
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 1-278 aa (P91353) 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 Large ribosomal subunit protein uL24m (39S ribosomal protein L24, mitochondrial) fragment from Caenorhabditis elegans, encompassing amino acids 1-278 with complete KOW domain preservation. This high-quality protein fragment serves as an essential tool for mitochondrial ribosome research and domain-specific functional studies. The full-length Large ribosomal subunit protein uL24m (also known as 39S ribosomal protein L24, mitochondrial or MRP-L24) is a mitochondrial protein encoded by the mrpl-24 gene in Caenorhabditis elegans. As indicated by its subcellular localization, this protein functions within the mitochondrion, where it plays a crucial role in mitochondrial ribosome assembly and protein synthesis. Mitochondrial ribosomal proteins are essential for oxidative phosphorylation and cellular energy production, making this protein fragment particularly valuable for researchers studying mitochondrial function, ribosomal biology, and energy metabolism pathways.