Recombinant RM44 protein (His tag)

Catalog Number	534741
Synonyms	Mitochondrial large ribosomal subunit protein mrpl-44; Ribosomal protein L44, mitochondrial
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P34384
Gene ID	176285
Molecular Weight	Predictes a molecular mass of 38.95 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	22-354
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 22-354 aa (P34384) 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 mL44 (mrpl-44) fragment (residues 22-354) from Caenorhabditis elegans, a stable and soluble unit optimized for structural and biochemical studies of mitochondrial ribosome function and polypeptide assembly. The full-length Large ribosomal subunit protein mL44 is a mitochondrial ribosome component encoded by the mrpl-44 gene in Caenorhabditis elegans. It plays a critical role in mitochondrial protein synthesis, potentially contributing to the assembly and stability of nascent mitochondrial polypeptides as they exit the ribosome. This protein is localized exclusively within the mitochondrion, underscoring its importance in cellular energy production and organelle-specific translation processes.