Recombinant RM49 protein (His tag)

Catalog Number	536041
Synonyms	39S ribosomal protein L49, mitochondrial; L49mt; MRP-L49
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q21939
Gene ID	187809
Molecular Weight	Predictes a molecular mass of 23.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1-187
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 1-187 aa (Q21939) 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 mL49 (39S ribosomal protein L49, mitochondrial) fragment from Caenorhabditis elegans, encompassing residues 1-187. This stable, soluble fragment is ideal for structural biology and biochemical studies of mitochondrial ribosome function. The full-length Large ribosomal subunit protein mL49 (MRP-L49) is a mitochondrial protein localized to the mitochondrion, as indicated by its subcellular location. As a component of the 39S ribosomal subunit, it plays an essential role in mitochondrial protein synthesis, supporting energy production and cellular metabolism. The provided fragment (residues 1-187) represents a computationally optimized region for experimental applications, facilitating research into mitochondrial ribosome assembly and function.