Recombinant RL22 protein (His tag)

Catalog Number	535022
Synonyms	60S ribosomal protein L22
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P52819
Gene ID	173873
Molecular Weight	Predictes a molecular mass of 16.47 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	2-130
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 2-130 aa (P52819) 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 eL22 (60S ribosomal protein L22) fragment from Caenorhabditis elegans, comprising residues 2-130. This 129-amino acid fragment was computationally designed for optimal stability and solubility, making it ideal for structural biology studies and biochemical characterization of ribosomal protein function. Large ribosomal subunit protein eL22 (encoded by the rpl-22 gene) is a component of the 60S ribosomal subunit in Caenorhabditis elegans. As a ribosomal protein, eL22 plays an essential role in protein synthesis, contributing to the structural integrity and functional capacity of the ribosome during translation. Ribosomal proteins like eL22 are fundamental to cellular function, with conserved roles across eukaryotic organisms in maintaining proper ribosome assembly and translational fidelity.