Recombinant RL7A protein (His tag)

Catalog Number	535012
Synonyms	60S ribosomal protein L7a
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P46223
Gene ID	31588
Molecular Weight	Predictes a molecular mass of 29.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	31-271
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 31-271 aa (P46223) 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 Drosophila melanogaster Large ribosomal subunit protein eL8 (60S ribosomal protein L7a) fragment (residues 31-271) is a highly stable and soluble protein unit designed for structural biology and biochemical studies. This 241-amino acid fragment retains key properties for investigating ribosomal assembly and function. The full-length Large ribosomal subunit protein eL8 (encoded by gene RpL7A) is a component of the 60S ribosomal subunit in Drosophila melanogaster, playing an essential role in protein synthesis. Ribosomal proteins like eL8 are fundamental to cellular function, contributing to ribosome assembly, stability, and translational fidelity. The selected fragment (31-271) represents a computationally optimized region for experimental applications, enabling researchers to explore ribosomal structure-function relationships without domain-specific constraints.