Recombinant RL5 protein (His tag)

Catalog Number	535951
Synonyms	60S ribosomal protein L5
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9W5R8
Gene ID	3355124
Molecular Weight	Predictes a molecular mass of 35.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	1-299
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 1-299 aa (Q9W5R8) 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 uL18 (60S ribosomal protein L5) from Drosophila melanogaster, encompassing amino acids 1-299, is a high-quality protein fragment ideal for structural and biochemical studies. This fragment represents a stable and soluble unit, facilitating research into ribosomal function and protein synthesis mechanisms. The full-length Large ribosomal subunit protein uL18 (encoded by the RpL5 gene) is a critical component of the ribosome, the cellular machinery responsible for protein synthesis. As part of the large ribosomal subunit (LSU), it contributes to the peptidyl transferase center (PTC), which catalyzes the formation of peptide bonds during translation. This process polymerizes amino acids into polypeptide chains, essential for cellular function. The protein is localized in both the cytoplasm and nucleus, reflecting its role in ribosome assembly and function across cellular compartments. The provided fragment (1-299) was selected to support experimental investigations into ribosomal structure and activity.