Recombinant RSSA protein (His tag)

Catalog Number	533228
Synonyms	40S ribosomal protein SA; K14; Laminin receptor homolog; Protein stubarista
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P38979
Gene ID	31106
Molecular Weight	Predictes a molecular mass of 26.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-218
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 1-218 aa (P38979) 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 Small Ribosomal Subunit Protein uS2 (Fragment 1-218) is a high-quality protein preparation ideal for studying ribosome assembly and rRNA processing. This stable fragment represents a soluble domain of the essential 40S ribosomal protein SA, optimized for structural and biochemical applications in molecular biology research. The full-length Small Ribosomal Subunit Protein uS2 (also known as 40S ribosomal protein SA, K14, or Laminin receptor homolog) is crucial for the assembly and stability of the 40S ribosomal subunit. It plays a vital role in the final maturation step of 40S ribosomal subunits by processing the 20S rRNA precursor into mature 18S rRNA. This protein is essential during oogenesis and imaginal development in Drosophila melanogaster. Subcellular localization studies indicate its presence in both the cytoplasm and nucleus, where it may associate with nascent ribonucleoprotein complexes. The protein's dual localization suggests potential roles in nuclear-cytoplasmic coordination of ribosome biogenesis.