Recombinant RS24 protein (His tag)

Catalog Number	540108
Synonyms	40S ribosomal protein S24
Species	Human
Expression System	E. coli
Accession	P62847
Molecular Weight	Predictes a molecular mass of 17.08 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	1-133
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 1-133 aa (P62847) 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 Human Small Ribosomal Subunit Protein eS24 (40S Ribosomal Protein S24) Fragment (1-133) is a high-quality, stable protein fragment designed for structural and biochemical studies. This product represents a soluble and functionally relevant region of RPS24, ideal for investigating ribosome assembly and pre-rRNA processing mechanisms. Small Ribosomal Subunit Protein eS24, encoded by the RPS24 gene, is an essential component of the small ribosomal subunit, which plays a critical role in protein synthesis. It is required for the processing of pre-rRNA and the maturation of 40S ribosomal subunits. As part of the small subunit (SSU) processome, it associates with ribosome biogenesis factors and the nascent pre-rRNA in the nucleolus, facilitating RNA folding, modifications, and cleavage during ribosome assembly. The protein localizes to both the cytoplasm, where it participates in ribosomal function, and the nucleolus, where it contributes to ribosomal subunit biogenesis.