# Recombinant RRP36 protein (His tag)

| | |
|---|---|
| **Catalog Number** | 540979 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q96EU6 |
| **Molecular Weight** | Predictes a molecular mass of 27.14 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band. |

## Product Information

| | |
|---|---|
| **Sequence Region** | 44-259 |
| **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 44-259 aa (Q96EU6) 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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

| | |
|---|---|
| **Description** | Recombinant Ribosomal RNA processing protein 36 homolog (RRP36) fragment (residues 44-259) is a high-quality protein designed for structural and functional studies. This 216-amino acid fragment, derived from human RRP36, is engineered to be stable and soluble, making it ideal for investigating early pre-rRNA processing mechanisms in ribosomal biogenesis.<br>The full-length Ribosomal RNA processing protein 36 homolog (RRP36) in Homo sapiens plays a critical role in ribosome assembly by participating in the early processing steps of pre-ribosomal RNA (pre-rRNA), specifically in the maturation pathway that produces 18S rRNA. This function is essential for proper ribosomal function and cellular protein synthesis. RRP36 is localized to the nucleus, particularly concentrated in the fibrillar region of the nucleolus, where it contributes to rRNA processing and nucleolar organization. The provided fragment (residues 44-259) represents a computationally selected, stable unit of the protein, enabling researchers to explore its biochemical properties and structural features without the complexities of the full-length protein. |