# Recombinant RT35 protein (His tag)

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| **Catalog Number** | 537923 |
| **Synonyms** | 28S ribosomal protein S28, mitochondrial; MRP-S28; S28mt; 28S ribosomal protein S35, mitochondrial; MRP-S35; S35mt |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P82673 |
| **Molecular Weight** | Predictes a molecular mass of 33.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band. |

## Product Information

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| **Sequence Region** | 51-323 |
| **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 51-323 aa (P82673) were fused with 6His tag. |

## Storage & Handling

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| **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

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| **Description** | Recombinant Human MRPS35 Protein Fragment (51-323) is a high-quality, stable, and soluble protein designed for structural and biochemical studies. This fragment of the Small ribosomal subunit protein mS35 (mitochondrial ribosomal protein S35) is computationally optimized to support research on mitochondrial ribosome function and protein synthesis mechanisms.<br>The full-length MRPS35 protein, encoded by the MRPS35 gene, is a component of the mitochondrial ribosome, specifically the small subunit, and is localized to the mitochondrion. Mitochondrial ribosomal proteins like MRPS35 are essential for mitochondrial protein synthesis, which is critical for oxidative phosphorylation and cellular energy production. This recombinant fragment provides a valuable tool for investigating mitochondrial ribosome assembly, function, and related cellular processes. |