# Recombinant RT28 protein (His tag)

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| **Catalog Number** | 549128 |
| **Synonyms** | 28S ribosomal protein S28, mitochondrial; MRP-S28; S28mt; 28S ribosomal protein S35, mitochondrial; MRP-S35; S35mt |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9Y2Q9 |
| **Molecular Weight** | Predictes a molecular mass of 14.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band. |

## Product Information

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| **Sequence Region** | 72-187 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >90%, 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 72-187 aa (Q9Y2Q9) 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 Small Ribosomal Subunit Protein bS1m (28S Ribosomal Protein S28, Mitochondrial) Fragment (residues 72-187). This 116-amino acid fragment was computationally selected for stability and solubility, making it an ideal tool for structural studies, biochemical assays, and mitochondrial ribosome research.<br>The full-length Small Ribosomal Subunit Protein bS1m, also known as MRPS28, is a mitochondrial ribosomal protein encoded by the MRPS28 gene in Homo sapiens. It localizes to the mitochondrion, as confirmed by experimental evidence, and functions as a component of the mitochondrial ribosome's small subunit. Mitochondrial ribosomes are essential for protein synthesis within mitochondria, supporting oxidative phosphorylation and cellular energy production. This recombinant fragment represents a stable, soluble region of the protein, facilitating investigations into ribosomal assembly, function, and mitochondrial translation mechanisms. |