# Recombinant RM15 protein (His tag)

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| **Catalog Number** | 549396 |
| **Synonyms** | 39S ribosomal protein L15, mitochondrial; L15mt; MRP-L15 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9P015 |
| **Molecular Weight** | Predictes a molecular mass of 32.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band. |

## Product Information

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| **Sequence Region** | 22-296 |
| **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 22-296 aa (Q9P015) 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 Large Ribosomal Subunit Protein uL15m (Fragment 22-296) is a high-quality protein fragment designed for structural and biochemical studies. This 275-amino acid fragment, derived from the mitochondrial ribosomal protein L15, has been computationally optimized for stability and solubility, making it an ideal tool for investigating mitochondrial ribosome assembly and function.<br>The full-length Large Ribosomal Subunit Protein uL15m (also known as 39S ribosomal protein L15, mitochondrial) is encoded by the MRPL15 gene and is localized to the mitochondrion. As a component of the mitochondrial ribosome, this protein plays a crucial role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. Mitochondrial ribosomal proteins like uL15m are fundamental to maintaining mitochondrial function and cellular metabolism. |