# Recombinant TSR1 protein (His tag)

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| **Catalog Number** | 548690 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q2NL82 |
| **Molecular Weight** | Predictes a molecular mass of 41.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band. |

## Product Information

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| **Sequence Region** | 48-402 |
| **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 48-402 aa (Q2NL82) 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** | Introducing the Recombinant Human TSR1 Protein Fragment (residues 48-402), a high-quality tool designed for studying the Bms1-type G domain. This fragment of the Pre-rRNA-processing protein TSR1 homolog is ideal for investigating specific ribosomal maturation mechanisms in nucleolar research.<br>The full-length Pre-rRNA-processing protein TSR1 homolog, encoded by the TSR1 gene in Homo sapiens, is essential for the maturation of the 40S ribosomal subunit within the nucleolus. It functions specifically in the nucleolus, a subnuclear compartment, where it plays a critical role in ribosome biogenesis, ensuring proper ribosomal assembly and function. The provided fragment encompasses the Bms1-type G domain, enabling focused studies on domain-specific contributions to ribosomal processing. |