# Recombinant SDA1 protein (His tag)

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| **Catalog Number** | 541372 |
| **Synonyms** | Nucleolar protein 130; SDA1 domain-containing protein 1; hSDA |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9NVU7 |
| **Molecular Weight** | Predictes a molecular mass of 57.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 58 kDa band. |

## Product Information

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| **Sequence Region** | 1-483 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, 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 1-483 aa (Q9NVU7) 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 Protein SDA1 homolog (Nucleolar protein 130), encompassing amino acids 1-483, is a high-purity fragment engineered for stability and solubility. This product supports investigations into 60S pre-ribosomal subunit export mechanisms, offering an ideal tool for structural and biochemical research. Protein SDA1 homolog, encoded by the SDAD1 gene in Homo sapiens, is essential for the export of 60S pre-ribosomal subunits from the nucleus to the cytoplasm, a critical step in ribosome biogenesis. It localizes predominantly to the nucleolus, as evidenced by experimental data, highlighting its role in nucleolar processes. The full-length protein's function in ribosomal assembly underscores its significance in cellular protein synthesis and potential implications in related diseases. |