Recombinant RUSD1 protein (His tag)

Catalog Number	550256
Synonyms	Ribosomal large subunit pseudouridine synthase C-like protein
Species	Human
Expression System	E. coli
Accession	Q9UJJ7
Molecular Weight	Predictes a molecular mass of 31.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	1-262
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 1-262 aa (Q9UJJ7) were fused with 6His tag.

Storage & Handling

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. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant RPUSD1 protein fragment (amino acids 1-262), representing a stable and soluble unit of human RNA pseudouridylate synthase domain-containing protein 1. This high-quality recombinant protein is ideal for structural studies, biochemical characterization, and functional assays investigating pseudouridine synthase activity. RPUSD1 encodes the RNA pseudouridylate synthase domain-containing protein 1, also known as ribosomal large subunit pseudouridine synthase C-like protein. As a pseudouridine synthase, this enzyme catalyzes the isomerization of uridine to pseudouridine in RNA molecules, a crucial post-transcriptional modification that enhances RNA stability and function. The specific biological roles and subcellular localization of the full-length human RPUSD1 protein require further experimental characterization.