Recombinant UTP11 protein (His tag)

Catalog Number	548569
Synonyms	U3 snoRNA-associated protein 11; UTP11-like protein
Species	Human
Expression System	E. coli
Accession	Q9Y3A2
Molecular Weight	Predictes a molecular mass of 32.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	1-253
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-253 aa (Q9Y3A2) 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	This recombinant protein is a fragment (residues 1-253) of the human Probable U3 Small Nucleolar RNA-Associated Protein 11 (UTP11), designed for structural and biochemical studies. It represents a stable and soluble unit ideal for investigating its essential role in ribosome biogenesis. The full-length UTP11 protein is a component of the small subunit (SSU) processome, the primary precursor of the small eukaryotic ribosomal subunit. Located in the nucleus and nucleolus, it contributes to ribosome assembly by associating with nascent pre-rRNA. UTP11 facilitates RNA folding, modifications, rearrangements, and cleavage during nucleolar processing of pre-18S ribosomal RNA, working in concert with other factors and the RNA exosome to ensure proper maturation of ribosomal RNA. This makes it a critical target for research in RNA biology and cellular metabolism.