Recombinant RT07 protein (His tag)

Catalog Number	548560
Synonyms	28S ribosomal protein S7, mitochondrial; MRP-S7; S7mt; bMRP-27a; bMRP27a
Species	Human
Expression System	E. coli
Accession	Q9Y2R9
Molecular Weight	Predictes a molecular mass of 25.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	38-242
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 38-242 aa (Q9Y2R9) 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 Human Small Ribosomal Subunit Protein uS7m (28S Ribosomal Protein S7, Mitochondrial), encompassing amino acids 38-242, is a stable and soluble fragment designed for structural and biochemical studies. This high-quality protein facilitates research into mitochondrial ribosome function and protein synthesis mechanisms. The full-length Small Ribosomal Subunit Protein uS7m, encoded by the MRPS7 gene, is a mitochondrial protein localized to the mitochondrion, as confirmed by experimental evidence. As a component of the mitochondrial ribosome, it plays a critical role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. Mitochondrial ribosomal proteins like uS7m are vital for maintaining mitochondrial function and are implicated in various metabolic processes and disorders.