Recombinant RT10 protein (His tag)

Catalog Number	551121
Synonyms	28S ribosomal protein S10, mitochondrial; MRP-S10; S10mt
Species	Human
Expression System	E. coli
Accession	P82664
Molecular Weight	Predictes a molecular mass of 19.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	52-201
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 52-201 aa (P82664) 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 uS10m (MRPS10) Fragment (52-201) - A high-quality, stable protein fragment ideal for mitochondrial ribosome research, structural studies, and biochemical characterization. The full-length Small Ribosomal Subunit Protein uS10m (also known as 28S ribosomal protein S10, mitochondrial or MRP-S10) is a mitochondrial protein encoded by the MRPS10 gene. According to UniProt entry P82664, this protein is localized to the mitochondrion, indicating its essential role in mitochondrial ribosomal function. As a component of the mitochondrial ribosome, this protein contributes to protein synthesis within mitochondria, which is crucial for cellular energy production and mitochondrial function. The mitochondrial localization underscores its importance in oxidative phosphorylation and cellular metabolism pathways.