Recombinant RT09 protein (His tag)

Catalog Number	549204
Synonyms	28S ribosomal protein S9, mitochondrial; MRP-S9; S9mt
Species	Human
Expression System	E. coli
Accession	P82933
Molecular Weight	Predictes a molecular mass of 39.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	69-396
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 69-396 aa (P82933) 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 uS9m (MRPS9) Fragment (69-396) - A highly stable and soluble protein fragment specifically designed for structural biology and biochemical studies of mitochondrial ribosome function. The full-length Small Ribosomal Subunit Protein uS9m (also known as 28S ribosomal protein S9, mitochondrial or MRP-S9) is a mitochondrial protein, as confirmed by experimental evidence (ECO:0000269|PubMed:25838379). As a component of the mitochondrial ribosome, this protein plays a crucial role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. The selected fragment (residues 69-396) represents a stable, soluble domain optimized for experimental applications, allowing researchers to investigate mitochondrial ribosomal structure and function without the challenges associated with full-length membrane-associated proteins.