Recombinant RT18B protein (His tag)

Catalog Number	541653
Synonyms	28S ribosomal protein S18-2, mitochondrial; MRP-S18-2; 28S ribosomal protein S18b, mitochondrial; MRP-S18-b; Mrps18-b; S18mt-b; Small ribosomal subunit protein bS18b
Species	Human
Expression System	E. coli
Accession	Q9Y676
Molecular Weight	Predictes a molecular mass of 25.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	48-258
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 48-258 aa (Q9Y676) 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 mS40 (MRPS18B) Fragment (residues 48-258) is a high-quality, stable, and soluble protein fragment designed for structural and biochemical studies. This 211-amino acid fragment represents a computationally optimized region of the mitochondrial ribosomal protein, facilitating research into mitochondrial translation mechanisms. The full-length Small Ribosomal Subunit Protein mS40 (also known as 28S ribosomal protein S18-2, mitochondrial) is encoded by the MRPS18B gene in humans and localizes to the mitochondrion, as confirmed by experimental evidence. As a component of the mitochondrial ribosome, this protein plays a critical role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. Mitochondrial ribosomal proteins are vital for maintaining mitochondrial function and are implicated in various cellular processes and diseases related to energy metabolism.