Recombinant RT18A protein (His tag)

Catalog Number	549386
Synonyms	39S ribosomal protein S18-3, mitochondrial; MRP-S18-3; 39S ribosomal protein S18a, mitochondrial; MRP-S18-a; Mrps18a; S18mt-a; Large ribosomal subunit protein bS18a
Species	Human
Expression System	E. coli
Accession	Q9NVS2
Molecular Weight	Predictes a molecular mass of 20.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	35-196
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 35-196 aa (Q9NVS2) 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 MRPS18A Protein Fragment (35-196) - A high-quality, stable fragment of the large ribosomal subunit protein mL66, specifically engineered for structural biology and biochemical studies of mitochondrial ribosome function. The full-length MRPS18A protein, also known as large ribosomal subunit protein mL66, is a component of the mitochondrial ribosome located exclusively within the mitochondrion. As part of the 39S large ribosomal subunit, this protein plays a crucial role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. The mitochondrial localization, confirmed by multiple experimental studies, underscores its importance in maintaining mitochondrial function and cellular metabolism.