Recombinant RT18C protein (His tag)

Catalog Number	549682
Synonyms	28S ribosomal protein S18-1, mitochondrial; MRP-S18-1; 28S ribosomal protein S18c, mitochondrial; MRP-S18-c; Mrps18-c; S18mt-c; Small ribosomal subunit protein bS18c
Species	Human
Expression System	E. coli
Accession	Q9Y3D5
Molecular Weight	Predictes a molecular mass of 12.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	47-142
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 47-142 aa (Q9Y3D5) 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 MRPS18C Protein Fragment (aa 47-142) - A highly stable and soluble fragment of the mitochondrial small ribosomal subunit protein bS18m, specifically engineered for structural biology and biochemical studies of mitochondrial ribosome function. The full-length MRPS18C protein, also known as small ribosomal subunit protein bS18m, is a mitochondrial ribosomal protein that localizes to the mitochondrion, as confirmed by experimental evidence. As a component of the mitochondrial small ribosomal subunit, this protein plays a crucial role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. Mitochondrial ribosomal proteins like MRPS18C are fundamental to maintaining mitochondrial function and cellular metabolism, making them important targets for studying mitochondrial disorders and energy-related cellular processes.