Recombinant RT63 protein (His tag)

Catalog Number	549076
Synonyms	Mitochondrial ribosomal protein 63; Mitochondrial ribosomal protein L57; Ribosomal protein 63, mitochondrial; hMRP63
Species	Human
Expression System	E. coli
Accession	Q9BQC6
Molecular Weight	Predictes a molecular mass of 13.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	1-102
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-102 aa (Q9BQC6) 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 Large Ribosomal Subunit Protein mL63 (MRPL57) Fragment (1-102) is a high-quality, stable, and soluble protein fragment designed for structural and biochemical studies. This product provides a reliable tool for investigating mitochondrial ribosome assembly and function, offering researchers a well-characterized unit optimized for experimental applications. The full-length Large Ribosomal Subunit Protein mL63, encoded by the MRPL57 gene, is a component of the mitochondrial ribosome, essential for mitochondrial protein synthesis. According to UniProt entry Q9BQC6, this protein is localized to the mitochondrion, playing a critical role in maintaining mitochondrial function and energy production. The provided fragment (1-102) was computationally selected to represent a stable and soluble region, facilitating research into ribosomal structure and mitochondrial biology without the complexities of the full-length protein.