Recombinant RM49 protein (His tag)

Catalog Number	544923
Synonyms	39S ribosomal protein L49, mitochondrial; L49mt; MRP-L49; Neighbor of FAU; NOF; Protein NOF1
Species	Human
Expression System	E. coli
Accession	Q13405
Molecular Weight	Predictes a molecular mass of 16.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	39-166
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 39-166 aa (Q13405) 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 mL49 Fragment (39S Ribosomal Protein L49, Mitochondrial) - A high-quality recombinant protein fragment (amino acids 39-166) of the mitochondrial ribosomal protein MRPL49, specifically engineered for structural and biochemical research applications. This 128-amino acid fragment represents a stable and soluble domain optimized for experimental studies. The full-length Large Ribosomal Subunit Protein mL49 (MRPL49) is a mitochondrial ribosomal protein that functions as part of the 39S large subunit of the mitochondrial ribosome. As indicated by its subcellular localization, this protein is exclusively located in the mitochondrion, where it plays a crucial role in mitochondrial protein synthesis. Mitochondrial ribosomal proteins like MRPL49 are essential for the translation of mitochondrial DNA-encoded proteins, which are critical components of the oxidative phosphorylation system and energy production. The mitochondrial localization underscores its importance in cellular energy metabolism and mitochondrial function.