Recombinant RM39 protein (His tag)

Catalog Number	548391
Synonyms	39S ribosomal protein L39, mitochondrial; L39mt; MRP-L39; 39S ribosomal protein L5, mitochondrial; L5mt; MRP-L5
Species	Human
Expression System	E. coli
Accession	Q9NYK5
Molecular Weight	Predictes a molecular mass of 36.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	35-338
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 35-338 aa (Q9NYK5) 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 mL39 Fragment (residues 35-338) is a high-purity protein designed for functional studies. This fragment fully encompasses the TGS domain, making it an ideal tool for investigating domain-specific roles in mitochondrial ribosome assembly and function. The full-length Large Ribosomal Subunit Protein mL39 (also known as 39S ribosomal protein L39, mitochondrial, or MRP-L39) is a mitochondrial protein, as indicated by its subcellular localization to the mitochondrion. As a component of the mitochondrial ribosome, it plays a critical role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. The provided fragment (residues 35-338) includes the TGS domain (residues 63-129), enabling focused research on this domain's contribution to ribosomal function and mitochondrial biology.