Recombinant RMND1 protein (His tag)

Catalog Number	546083
Species	Human
Expression System	E. coli
Accession	Q9NWS8
Molecular Weight	Predictes a molecular mass of 34.14 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	169-449
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 169-449 aa (Q9NWS8) 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	Introducing the recombinant RMND1 protein fragment (169-449), a stable and soluble unit derived from the Required for meiotic nuclear division protein 1 homolog. This fragment is expertly designed for structural and biochemical studies, offering researchers a reliable tool to investigate mitochondrial translation mechanisms. The full-length Required for meiotic nuclear division protein 1 homolog (RMND1) in Homo sapiens is essential for mitochondrial translation, where it likely coordinates the assembly or maintenance of the mitochondrial ribosome. It localizes to the mitochondrion and may reside in mitochondrial RNA granules, underscoring its critical role in cellular energy production and organelle function. This protein's involvement in ribosome integrity makes it a key target for understanding mitochondrial disorders and metabolic research.