Recombinant RM03 protein (His tag)

Catalog Number	549449
Synonyms	39S ribosomal protein L3, mitochondrial; L3mt; MRP-L3
Species	Human
Expression System	E. coli
Accession	P09001
Molecular Weight	Predictes a molecular mass of 35.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	44-348
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 44-348 aa (P09001) 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 uL3m (39S ribosomal protein L3, mitochondrial), fragment 44-348. This high-quality, stable fragment is designed for structural and biochemical studies, offering researchers a soluble and functional unit ideal for investigating mitochondrial ribosome assembly and function. The full-length Large ribosomal subunit protein uL3m, encoded by the MRPL3 gene, is a mitochondrial protein essential for the structure and function of the 39S ribosomal subunit within the mitochondrion. As a component of the mitochondrial ribosome, it plays a critical role in mitochondrial protein synthesis, supporting oxidative phosphorylation and cellular energy production. Its localization to the mitochondrion underscores its importance in maintaining mitochondrial integrity and metabolic processes.