Recombinant RM11 protein (His tag)

Catalog Number	543940
Synonyms	39S ribosomal protein L11, mitochondrial; L11mt; MRP-L11
Species	Human
Expression System	E. coli
Accession	Q9Y3B7
Molecular Weight	Predictes a molecular mass of 22.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-192
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-192 aa (Q9Y3B7) 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 uL11m (39S Ribosomal Protein L11, Mitochondrial), Fragment 1-192. This high-quality protein fragment is designed for structural and biochemical studies, offering a stable and soluble unit ideal for investigating mitochondrial ribosome function and assembly. The full-length Large Ribosomal Subunit Protein uL11m, encoded by the MRPL11 gene in Homo sapiens, is a mitochondrial protein localized to the mitochondrion, as supported by multiple experimental evidences. It plays a critical role in the mitochondrial ribosome, which is essential for protein synthesis within mitochondria, contributing to cellular energy production and metabolic functions. The provided fragment (amino acids 1-192) was selected computationally to ensure stability and solubility, facilitating research into mitochondrial translation mechanisms and associated disorders.