Recombinant RM52 protein (His tag)

Catalog Number	547623
Synonyms	39S ribosomal protein L52, mitochondrial; L52mt; MRP-L52
Species	Human
Expression System	E. coli
Accession	Q86TS9
Molecular Weight	Predictes a molecular mass of 12.91 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	24-123
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 24-123 aa (Q86TS9) 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 mL52 (MRPL52) Fragment (24-123) is a high-purity, stable protein fragment designed for structural and biochemical studies. This 100-amino acid fragment represents a soluble and well-folded region of the mitochondrial ribosomal protein, ideal for investigating mitochondrial ribosome assembly and function. The full-length Large ribosomal subunit protein mL52 (also known as 39S ribosomal protein L52, mitochondrial) is encoded by the MRPL52 gene in Homo sapiens and is localized to the mitochondrion, as supported by experimental evidence. As a component of the mitochondrial ribosome, this protein plays a critical role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. Mitochondrial ribosomal proteins like MRPL52 are vital for maintaining mitochondrial function and have implications in metabolic disorders and cellular bioenergetics research.