Recombinant RM47 protein (His tag)

Catalog Number	549100
Synonyms	39S ribosomal protein L47, mitochondrial; L47mt; MRP-L47; Nasopharyngeal carcinoma metastasis-related protein 1
Species	Human
Expression System	E. coli
Accession	Q9HD33
Molecular Weight	Predictes a molecular mass of 24.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	62-250
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 62-250 aa (Q9HD33) 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 uL29m (MRPL47) Fragment (62-250) is a high-quality protein preparation designed for structural and biochemical research. This 189-amino acid fragment represents a stable, soluble domain computationally optimized for experimental applications, providing researchers with a reliable tool for studying mitochondrial ribosome function. The full-length Large ribosomal subunit protein uL29m (also known as MRPL47) is a mitochondrial protein that functions as a component of the 39S large ribosomal subunit in mitochondria. According to established experimental evidence, this protein is localized to the mitochondrion, where it plays a crucial role in mitochondrial protein synthesis. Mitochondrial ribosomal proteins like MRPL47 are essential for the proper function of the mitochondrial translation machinery, which is critical for oxidative phosphorylation and cellular energy production. The protein has also been identified as nasopharyngeal carcinoma metastasis-related protein 1, suggesting potential relevance in cancer research.