Recombinant RT02 protein (His tag)

Catalog Number	543936
Synonyms	28S ribosomal protein S2, mitochondrial; MRP-S2; S2mt
Species	Human
Expression System	E. coli
Accession	Q9Y399
Molecular Weight	Predictes a molecular mass of 29.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	57-296
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 57-296 aa (Q9Y399) 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 Small Ribosomal Subunit Protein uS2m (MRPS2) Fragment (57-296) is a high-quality, stable protein fragment designed for structural and biochemical studies. This 240-amino acid fragment retains key features of the full-length protein, supporting research into mitochondrial ribosome formation and translation. The full-length Small Ribosomal Subunit Protein uS2m, encoded by the MRPS2 gene, is essential for mitoribosome formation and stability, as well as mitochondrial translation, playing a critical role in mitochondrial protein synthesis (based on ECO:0000269|PubMed:29576219). It is localized to the mitochondrion (based on ECO:0000269|PubMed:25838379), highlighting its importance in mitochondrial function and energy production. The selected fragment (57-296) was computationally optimized for solubility and stability, enabling reliable use in experimental applications without compromising scientific relevance.