Recombinant RT15 protein (His tag)

Catalog Number	542508
Synonyms	28S ribosomal protein S15, mitochondrial; MRP-S15; S15mt
Species	Human
Expression System	E. coli
Accession	P82914
Molecular Weight	Predictes a molecular mass of 24.41 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	65-257
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 65-257 aa (P82914) 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	Our recombinant protein product features a stable and soluble fragment (residues 65-257) of the human Small ribosomal subunit protein uS15m (MRP-S15), designed for structural and biochemical studies. This 193-amino acid fragment is computationally optimized to facilitate research into mitochondrial ribosome function. The full-length Small ribosomal subunit protein uS15m, encoded by the MRPS15 gene, is a mitochondrial protein localized to the mitochondrion matrix, as supported by experimental evidence. As a component of the mitochondrial ribosome, it plays a critical role in mitochondrial protein synthesis, which is essential for cellular energy production and overall mitochondrial function. The provided fragment represents a key structural unit selected for its stability and solubility, enabling detailed investigations into ribosomal mechanisms.