Recombinant RT11 protein (His tag)

Catalog Number	549471
Synonyms	28S ribosomal protein S11, mitochondrial; MRP-S11; S11mt; Cervical cancer proto-oncogene 2 protein; HCC-2
Species	Human
Expression System	E. coli
Accession	P82912
Molecular Weight	Predictes a molecular mass of 16.14 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	58-194
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 58-194 aa (P82912) 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 uS11m (MRPS11) Fragment (residues 58-194) is a high-quality protein product designed for structural and biochemical studies. This 137-amino acid fragment was computationally selected to ensure stability and solubility, making it an ideal tool for investigating mitochondrial ribosome function and associated cellular processes. The full-length Small ribosomal subunit protein uS11m, also known as MRPS11, is a mitochondrial ribosomal protein that localizes to the mitochondrion, as confirmed by experimental evidence. As a component of the mitochondrial small ribosomal subunit, it plays a crucial role in mitochondrial protein synthesis, which is essential for oxidative phosphorylation and cellular energy production. Mitochondrial ribosomal proteins like MRPS11 are fundamental to maintaining mitochondrial function and have implications in various cellular processes and disease contexts.