Recombinant RL38 protein (His tag)

Catalog Number	547142
Synonyms	60S ribosomal protein L38
Species	Human
Expression System	E. coli
Accession	P63173
Molecular Weight	Predictes a molecular mass of 9.87 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	1-70
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 1-70 aa (P63173) 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 eL38 (RPL38) Fragment (1-70) is a high-quality, stable protein fragment designed for structural and biochemical studies. This product represents a soluble and functional unit of the 60S ribosomal protein L38, essential for researchers investigating ribosome assembly and protein synthesis mechanisms. The full-length Large Ribosomal Subunit Protein eL38, encoded by the RPL38 gene, is a key structural component of the large ribosomal subunit. Ribosomes are critical ribonucleoprotein complexes responsible for protein synthesis in the cell, and eL38 contributes to their proper assembly and function. As indicated by its subcellular localization in the cytoplasm, this protein operates within the primary site of protein production, underscoring its fundamental role in cellular metabolism and gene expression. The provided fragment encompasses the entire protein domain (residues 1-70), offering a representative and experimentally tractable module for detailed mechanistic investigations.