Recombinant RL37 protein (His tag)

Catalog Number	537887
Synonyms	60S ribosomal protein L37; G1.16
Species	Human
Expression System	E. coli
Accession	P61927
Molecular Weight	Predictes a molecular mass of 12.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-97
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-97 aa (P61927) 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 eL37 (RPL37) Fragment (1-97) is a high-quality, stable, and soluble protein fragment designed for structural and biochemical studies. This product represents a computationally optimized segment of the 60S ribosomal protein L37, facilitating research into ribosome assembly and protein synthesis mechanisms. The full-length Large Ribosomal Subunit Protein eL37, encoded by the RPL37 gene, is an essential component of the large ribosomal subunit in humans. As part of the ribosome—a critical ribonucleoprotein complex—it plays a fundamental role in protein synthesis within the cell, ensuring accurate translation of genetic information into functional proteins. Located in the cytoplasm, this protein contributes to ribosomal stability and function, with implications for cellular growth and homeostasis. The provided fragment (residues 1-97) encompasses the entire structured domain, enabling detailed investigation of its role in ribosome biology without the complexities of the full-length protein.