Recombinant RL18 protein (His tag)

Catalog Number	542570
Synonyms	60S ribosomal protein L18
Species	Human
Expression System	E. coli
Accession	Q07020
Molecular Weight	Predictes a molecular mass of 23.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	2-188
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 2-188 aa (Q07020) 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 eL18 (RPL18), Fragment 2-188: A high-purity, stable protein fragment designed for structural and biochemical studies, representing a key component of the 60S ribosomal subunit involved in protein synthesis. Large ribosomal subunit protein eL18 (encoded by gene RPL18) is an essential component of the 60S ribosomal subunit, which forms part of the ribosome—the complex molecular machinery responsible for protein synthesis in cells. As evidenced by multiple studies, this protein contributes to ribosomal structure and function during translation. The full-length protein localizes primarily to the cytoplasm and cytosol, where it associates with cytosolic polysomes, and has also been detected in ribosomes bound to the rough endoplasmic reticulum, reflecting its role in both cytoplasmic and membrane-associated protein synthesis. The provided fragment (residues 2-188) encompasses the entire structured region of the protein and was selected computationally to ensure stability and solubility, making it ideal for investigating ribosomal assembly, function, and interactions.