Recombinant RL18A protein (His tag)

Catalog Number	544827
Synonyms	60S ribosomal protein L18a
Species	Human
Expression System	E. coli
Accession	Q02543
Molecular Weight	Predictes a molecular mass of 22.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-176
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 1-176 aa (Q02543) 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 eL20 (60S ribosomal protein L18a) fragment (amino acids 1-176) - A high-quality, stable protein fragment ideal for structural studies and functional analysis of ribosomal assembly and protein synthesis mechanisms. The full-length Large ribosomal subunit protein eL20 (also known as 60S ribosomal protein L18a) is an essential component of the large ribosomal subunit, which forms part of the ribosome - the complex molecular machine responsible for protein synthesis in cells. According to experimental evidence, this protein localizes to the cytoplasm where it participates in ribosome assembly and function. The ribosome serves as the cellular factory for translating genetic information into functional proteins, making ribosomal proteins like eL20 fundamental to cellular metabolism and growth. The selected fragment (amino acids 1-176) represents a stable, soluble domain suitable for investigating the structural and biochemical properties of this crucial ribosomal component.