Recombinant RL4 protein (His tag)

Catalog Number	539925
Synonyms	60S ribosomal protein L1; 60S ribosomal protein L4
Species	Human
Expression System	E. coli
Accession	P36578
Molecular Weight	Predictes a molecular mass of 42.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	2-362
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 2-362 aa (P36578) 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 uL4 (RPL4) Fragment (aa 2-362) is a high-quality, stable protein fragment designed for structural and biochemical studies. This 361-amino acid fragment represents a soluble and functional unit of the 60S ribosomal protein L4, essential for researchers investigating ribosome assembly and protein synthesis mechanisms. The full-length Large Ribosomal Subunit Protein uL4 (also known as 60S ribosomal protein L1 or L4) is a critical component of the large ribosomal subunit in humans, encoded by the gene RPL4 (UniProt ID: P36578). As part of the ribosome—a large ribonucleoprotein complex—this protein plays a fundamental role in the synthesis of cellular proteins, facilitating accurate translation of genetic information into functional polypeptides. It is localized in the cytoplasm, where it contributes to ribosome structure and function, supporting essential cellular processes. The provided fragment (amino acids 2-362) was selected computationally to ensure stability and solubility, enabling reliable use in experimental applications without altering the inherent biological context.