Recombinant RPF2 protein (His tag)

Catalog Number	543633
Synonyms	Brix domain-containing protein 1; Ribosome biogenesis protein RPF2 homolog
Species	Human
Expression System	E. coli
Accession	Q9H7B2
Molecular Weight	Predictes a molecular mass of 37.24 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	1-306
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-306 aa (Q9H7B2) 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 RPF2 (Ribosome production factor 2 homolog) fragment (amino acids 1-306) is a high-purity protein designed for studying ribosomal large subunit assembly and nucleolar localization. This fragment fully encompasses the functional Brix domain, making it an ideal tool for domain-specific functional assays and mechanistic research in ribosome biogenesis. The full-length RPF2 protein, encoded by the RPF2 gene, plays a critical role in ribosomal large subunit assembly and is implicated in regulating the localization of the 5S ribonucleoprotein particle to the nucleolus. Located predominantly in the nucleus and nucleolus, its association with the nucleolus is RNA-dependent. These functions highlight its significance in fundamental cellular processes related to ribosome biogenesis and nucleolar organization.