Recombinant PRP18 protein (His tag)

Catalog Number	541102
Synonyms	PRP18 homolog; hPRP18
Species	Human
Expression System	E. coli
Accession	Q99633
Molecular Weight	Predictes a molecular mass of 32.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	76-342
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 76-342 aa (Q99633) 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 Pre-mRNA-splicing factor 18 (PRP18 homolog, hPRP18) fragment (amino acids 76-342) is a high-quality protein designed for structural and biochemical studies. This 267-amino acid fragment, derived from the human PRPF18 gene, represents a stable and soluble unit optimized for research on pre-mRNA splicing mechanisms. Pre-mRNA-splicing factor 18 (hPRP18) is a human nuclear protein that plays a critical role in the second step of pre-mRNA splicing, as supported by experimental evidence (PubMed:9000057). It localizes to nuclear speckles and colocalizes with spliceosomal snRNPs, indicating its involvement in the dynamic assembly and function of the spliceosome. This protein is essential for understanding gene regulation and RNA processing pathways in cellular biology.