Recombinant PRP4 protein (His tag)

Catalog Number	537212
Synonyms	PRP4 homolog; hPrp4; U4/U6 snRNP 60 kDa protein; WD splicing factor Prp4
Species	Human
Expression System	E. coli
Accession	O43172
Molecular Weight	Predictes a molecular mass of 51.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 53 kDa band.

Product Information

Sequence Region	80-522
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 80-522 aa (O43172) 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 PRPF4 Protein (Fragment 80-522) is a high-quality, stable fragment of the U4/U6 small nuclear ribonucleoprotein Prp4, designed for structural and biochemical studies. This 443-amino acid fragment retains key features for investigating pre-mRNA splicing mechanisms. The full-length PRPF4 protein, encoded by the PRPF4 gene, is a critical component of the U4/U6-U5 tri-snRNP complex and the precatalytic spliceosome (spliceosome B complex), playing an essential role in spliceosome assembly during pre-mRNA splicing. It localizes to the nucleus, particularly within nuclear speckles, where it contributes to the regulation of gene expression through RNA processing. This recombinant fragment provides a soluble and stable unit for elucidating the molecular mechanisms of splicing and related cellular functions.