Recombinant PRP16 protein (His tag)

Catalog Number	543307
Synonyms	ATP-dependent RNA helicase DHX38; DEAH box protein 38
Species	Human
Expression System	E. coli
Accession	Q92620
Molecular Weight	Predictes a molecular mass of 20.24 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	308-461
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 308-461 aa (Q92620) 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	This recombinant protein product features a stable and soluble fragment (residues 308-461) of the human Pre-mRNA-splicing factor ATP-dependent RNA helicase PRP16 (DHX38), designed for structural and biochemical studies. This fragment, computationally optimized for high solubility, enables researchers to investigate key aspects of this essential spliceosomal helicase involved in pre-mRNA processing. The full-length Pre-mRNA-splicing factor ATP-dependent RNA helicase PRP16 (DHX38) is an ATP-dependent RNA helicase that plays a critical role in pre-mRNA splicing as an integral component of the spliceosome. This enzyme contributes to the complex molecular rearrangements required for accurate intron removal and exon joining during gene expression. Located in the nucleus, DHX38 functions within the spliceosomal machinery to ensure proper mRNA maturation, making it fundamental to eukaryotic gene regulation. The provided fragment represents a structurally stable region selected to facilitate detailed mechanistic studies of this important RNA processing enzyme.