Recombinant PWP1 protein (His tag)

Catalog Number	544937
Synonyms	Keratinocyte protein IEF SSP 9502
Species	Human
Expression System	E. coli
Accession	Q13610
Molecular Weight	Predictes a molecular mass of 44.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	121-501
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 121-501 aa (Q13610) 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 PWP1 Protein Fragment (aa 121-501), a stable and soluble 381-amino acid fragment of Periodic Tryptophan Protein 1 Homolog, engineered for chromatin and transcription regulation studies. This fragment is optimized for structural and biochemical analyses, offering researchers a reliable tool to investigate epigenetic and transcriptional mechanisms. Periodic Tryptophan Protein 1 Homolog (PWP1), encoded by the PWP1 gene in Homo sapiens, is a chromatin-associated factor that plays a critical role in transcriptional regulation. It modulates Pol I-mediated rRNA biogenesis and likely influences Pol III-mediated transcription, contributing to the epigenetic control of rDNA. The protein localizes to the nucleus, nucleolus, and chromosomes, specifically associating with rDNA chromatin regions, underscoring its importance in nucleolar function and gene expression. This recombinant fragment provides a focused approach to study these regulatory processes without the complexities of the full-length protein.