Recombinant XRN2 protein (His tag)

Catalog Number	548209
Synonyms	DHM1-like protein; DHP protein
Species	Human
Expression System	E. coli
Accession	Q9H0D6
Molecular Weight	Predictes a molecular mass of 51.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 56 kDa band.

Product Information

Sequence Region	1-427
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 1-427 aa (Q9H0D6) 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 5'-3' Exoribonuclease 2 (XRN2) Fragment (residues 1-427) is a high-purity, stable protein designed for structural and biochemical studies. This fragment retains key functional characteristics of the full-length enzyme, offering researchers a reliable tool for investigating transcription termination mechanisms and RNA processing. Human 5'-3' Exoribonuclease 2 (XRN2), encoded by the XRN2 gene, is a nuclear enzyme with 5'→3' exoribonuclease activity that plays a critical role in transcription termination by RNA polymerase II. Following cleavage at polyadenylation sites, XRN2 processively degrades the resulting 3' fragment still attached to the elongating polymerase, thereby promoting transcription termination. The protein also binds to RNA polymerase II transcription termination R-loops formed at G-rich pause sites. XRN2 is localized to the nucleus and nucleolus, underscoring its fundamental role in nuclear RNA metabolism and gene expression regulation.