Recombinant TXN4B protein (His tag)

Catalog Number	539089
Synonyms	Dim1-like protein
Species	Human
Expression System	E. coli
Accession	Q9NX01
Molecular Weight	Predictes a molecular mass of 18.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	1-149
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-149 aa (Q9NX01) 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 Thioredoxin-like protein 4B (TXNL4B) fragment (amino acids 1-149) - a highly stable and soluble protein domain essential for pre-mRNA splicing and cell cycle progression. This carefully selected fragment is ideal for structural studies and biochemical assays investigating spliceosome function. Thioredoxin-like protein 4B (also known as Dim1-like protein) is a nuclear protein that plays an essential role in pre-mRNA splicing, a critical step in gene expression regulation. The protein is also required for proper cell cycle progression, specifically during the S/G2 transition phase, highlighting its importance in cellular division processes. The full-length protein localizes to the nucleus, consistent with its function in RNA processing. This recombinant fragment represents a stable, soluble domain that maintains key structural features of the native protein, making it valuable for research applications focused on understanding spliceosome mechanisms and cell cycle regulation.