Recombinant TXD15 protein (His tag)

Catalog Number	541013
Species	Human
Expression System	E. coli
Accession	Q96J42
Molecular Weight	Predictes a molecular mass of 18.15 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	174-321
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 174-321 aa (Q96J42) 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 174-321) of human Thioredoxin domain-containing protein 15 (TXNDC15), designed for structural and biochemical studies. TXNDC15 plays a key role in ciliary hedgehog signaling and ciliogenesis, making this fragment an essential tool for investigating cellular signaling pathways and cilia-related functions. Thioredoxin domain-containing protein 15, encoded by the TXNDC15 gene in Homo sapiens, acts as a positive regulator of ciliary hedgehog signaling and is involved in ciliogenesis, processes critical for cellular communication and development. The protein localizes to the cilium membrane as a single-pass type I membrane protein, highlighting its importance in ciliary structure and function. This recombinant fragment was computationally selected to ensure stability and solubility, facilitating detailed analysis of its biochemical properties and role in ciliary mechanisms without the complexities of the full-length protein.