Recombinant TTC7B protein (His tag)

Catalog Number	547624
Synonyms	TPR repeat protein 7B; Tetratricopeptide repeat protein 7-like-1; TPR repeat protein 7-like-1
Species	Human
Expression System	E. coli
Accession	Q86TV6
Molecular Weight	Predictes a molecular mass of 18.54 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	691-843
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 691-843 aa (Q86TV6) 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 Tetratricopeptide repeat protein 7B (TPR repeat protein 7B) Fragment (residues 691-843) is a high-purity, soluble protein product designed for structural and biochemical studies. This 153-amino acid fragment represents a stable, functionally relevant region of TTC7B, a key regulator of phosphatidylinositol 4-phosphate synthesis and plasma membrane localization of phosphatidylinositol 4-kinase. Tetratricopeptide repeat protein 7B (TTC7B) is a human protein that functions as a critical component of a complex required for localizing phosphatidylinositol 4-kinase (PI4K) to the plasma membrane. This complex regulates phosphatidylinositol 4-phosphate (PtdIns(4)P) synthesis, with TTC7B playing a central role in bridging PI4KA to EFR3B and HYCC1 through direct protein interactions. The protein localizes to both the cytoplasm (cytosol) and cell membrane, where it is recruited to the plasma membrane following interaction with EFR3 proteins (EFR3A or EFR3B). This membrane recruitment is essential for its function in phosphoinositide signaling pathways.