Recombinant TTC8 protein (His tag)

Catalog Number	543209
Synonyms	TPR repeat protein 8; Bardet-Biedl syndrome 8 protein
Species	Human
Expression System	E. coli
Accession	Q8TAM2
Molecular Weight	Predictes a molecular mass of 36.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	235-541
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 235-541 aa (Q8TAM2) 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 8 (TPR repeat protein 8, TTC8) fragment (amino acids 235-541) is a high-quality, stable protein designed for structural and functional studies. This 307-amino acid fragment, derived from the Bardet-Biedl syndrome 8 protein, is ideal for investigating ciliary trafficking, BBSome complex assembly, and Hedgehog signaling pathways in research applications. Tetratricopeptide repeat protein 8 (TTC8) is a critical component of the BBSome complex, which functions as a coat complex essential for sorting specific membrane proteins to primary cilia. The BBSome is required for ciliogenesis and regulates the trafficking of proteins like SMO in the sonic hedgehog (SHH) pathway through interactions with Rab8 GTPase. TTC8 localizes to the centrosome, centriolar satellites, and cilium membrane, where it supports proper BBSome assembly and ciliary localization. Dysfunction in TTC8 is linked to Bardet-Biedl syndrome, underscoring its importance in cellular and developmental processes.