Recombinant TPC12 protein (His tag)

Catalog Number	545560
Synonyms	Tetratricopeptide repeat protein 15; TPR repeat protein 15; TTC-15; Trafficking of membranes and mitosis
Species	Human
Expression System	E. coli
Accession	Q8WVT3
Molecular Weight	Predictes a molecular mass of 50.83 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 51 kDa band.

Product Information

Sequence Region	301-735
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 301-735 aa (Q8WVT3) 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 Trafficking Protein Particle Complex Subunit 12 (TRAPPC12) Fragment (residues 301-735) is a highly stable and soluble protein fragment derived from human TRAPPC12, optimized for structural and biochemical studies. This 435-amino acid fragment retains key properties for investigating the protein's roles in intracellular trafficking and mitotic regulation. The full-length TRAPPC12 protein is a component of the TRAPP complex, which plays a critical role in early-stage endoplasmic reticulum to Golgi apparatus trafficking. Additionally, TRAPPC12 functions in chromosome congression, kinetochore assembly, and stability by controlling the recruitment of CENPE to kinetochores during cell division. The protein primarily localizes to the endoplasmic reticulum-Golgi intermediate compartment and, to a lesser extent, the nucleus, reflecting its dual involvement in membrane trafficking and nuclear processes.