Recombinant TPC6B protein (His tag)

Catalog Number	547617
Synonyms	TRAPP complex subunit 6B
Species	Human
Expression System	E. coli
Accession	Q86SZ2
Molecular Weight	Predictes a molecular mass of 19.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	1-158
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-158 aa (Q86SZ2) 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 6B (TRAPPC6B) Fragment (1-158) is a high-quality, soluble protein fragment derived from human TRAPPC6B, designed for structural and biochemical studies. This fragment represents a stable and functionally relevant region, ideal for investigating intracellular trafficking mechanisms and neural development processes. TRAPPC6B is a component of the Transport Protein Particle (TRAPP) complex, which plays a critical role in specific stages of inter-organelle traffic. It is particularly involved in the early development of neural circuitry, where it regulates the frequency and amplitude of intracellular calcium transients essential for neuron differentiation and survival. The protein localizes to the Golgi apparatus, cis-Golgi network, and endoplasmic reticulum, underscoring its importance in membrane trafficking and cellular signaling pathways. The provided fragment (amino acids 1-158) encompasses a stable, soluble domain selected for its suitability in experimental applications, enabling researchers to explore TRAPPC6B's molecular functions with precision.