Recombinant TPC10 protein (His tag)

Catalog Number	547010
Synonyms	Epilepsy holoprosencephaly candidate 1 protein; EHOC-1; Protein GT334; Trafficking protein particle complex subunit TMEM1; Transport protein particle subunit TMEM1; TRAPP subunit TMEM1
Species	Human
Expression System	E. coli
Accession	P48553
Molecular Weight	Predictes a molecular mass of 30.23 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	917-1168
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 917-1168 aa (P48553) 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	Introducing the recombinant protein fragment of Trafficking Protein Particle Complex Subunit 10 (TRAPPC10), spanning residues 917-1168. This 252-amino acid fragment has been carefully selected for its stability and solubility, making it an ideal tool for structural studies and biochemical assays related to Golgi trafficking mechanisms. The full-length TRAPPC10 protein, also known as EHOC-1 or TMEM1, serves as a specific subunit of the TRAPP II complex—a highly conserved vesicle tethering complex essential for late Golgi trafficking. It functions as a membrane tether, facilitating intracellular transport processes critical for cellular organization and communication. Located in the cis-Golgi network, this protein plays a fundamental role in vesicle-mediated transport, with implications in neurological development and cellular homeostasis. The provided fragment enables focused investigation into these trafficking mechanisms without the complexities of the full-length protein.