Recombinant TBC28 protein (His tag)

Catalog Number	552069
Species	Human
Expression System	E. coli
Accession	Q2M2D7
Molecular Weight	Predictes a molecular mass of 25.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-210
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 1-210 aa (Q2M2D7) 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	This product is a high-quality recombinant protein fragment of human TBC1 domain family member 28 (TBC1D28), encompassing amino acids 1-210. This 210-amino acid fragment is specifically designed to contain the complete Rab-GAP TBC domain, making it an essential tool for researchers investigating the molecular mechanisms of Rab GTPase signaling and regulation. TBC1D28 is a human protein encoded by the gene TBC1D28 (UniProt ID: Q2M2D7). As a member of the TBC1 domain family, it is implicated in the regulation of intracellular membrane trafficking through its Rab-GTPase activating protein (Rab-GAP) activity. Rab GTPases are key molecular switches that control vesicle formation, motility, and fusion. Proteins containing TBC domains, like TBC1D28, are crucial for inactivating specific Rab proteins by stimulating their GTP hydrolysis, thereby terminating their signaling and ensuring proper spatial and temporal control of membrane traffic. This recombinant fragment provides a focused reagent for biochemical and structural studies of this critical regulatory domain.