Recombinant TM1L2 protein (His tag)

Catalog Number	545268
Synonyms	Target of Myb-like protein 2
Species	Human
Expression System	E. coli
Accession	Q6ZVM7
Molecular Weight	Predictes a molecular mass of 19.09 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	1-155
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 1-155 aa (Q6ZVM7) 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 TOM1-like protein 2 (TOM1L2) fragment encompassing the complete VHS domain (amino acids 1-155). This high-purity protein serves as an essential tool for investigating the adapter functions of TOM1L2 in endocytic trafficking and myosin VI targeting mechanisms. TOM1-like protein 2 functions as a MYO6/Myosin VI adapter protein that directs myosin VI to endocytic structures, facilitating intracellular transport processes. Research indicates its potential role in recruiting clathrin to endosomes and regulating growth factor-induced mitogenic signaling pathways. The full-length protein acts as a critical molecular bridge in cellular trafficking systems, making this VHS domain-containing fragment particularly valuable for domain-specific functional studies in endocytosis and signal transduction research.