Recombinant MPP7 protein (His tag)

Catalog Number	545153
Species	Human
Expression System	E. coli
Accession	Q5T2T1
Molecular Weight	Predictes a molecular mass of 34.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	1-300
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 1-300 aa (Q5T2T1) 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 MAGUK p55 subfamily member 7 (MPP7) fragment (residues 1-300) is a high-purity protein designed for studying epithelial cell polarity and tight junction formation. This fragment fully encompasses the critical L27 1, L27 2, PDZ, and SH3 domains, making it an ideal tool for domain-specific functional assays and protein interaction studies. MAGUK p55 subfamily member 7 (MPP7) functions as a key adapter protein that promotes epithelial cell polarity and tight junction assembly through its interaction with DLG1. It plays a vital role in organizing protein complexes at cell-cell contact sites. The protein localizes to multiple cellular compartments including the lateral cell membrane, tight junctions, adherens junctions, cell cortex, and cytoplasm, reflecting its multifaceted role in maintaining cellular architecture and signaling. This fragment preserves the essential structural domains responsible for its scaffolding functions in cell polarity pathways.