Recombinant MPP4 protein (His tag)

Catalog Number	545702
Synonyms	Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 5 protein; Discs large homolog 6
Species	Human
Expression System	E. coli
Accession	Q96JB8
Molecular Weight	Predictes a molecular mass of 31.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	50-314
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 50-314 aa (Q96JB8) 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 human MPP4 protein fragment (residues 50-314), a high-purity tool designed for studying the functional domains of MAGUK p55 subfamily member 4. This fragment fully encompasses the L27 2, PDZ, and SH3 domains, enabling targeted investigation of their roles in retinal photoreceptor development and cellular organization. The full-length MPP4 protein (Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 5 protein/Discs large homolog 6) plays a crucial role in retinal photoreceptor development. It localizes to the cytoplasm, with specific detection at the outer limiting membrane and outer plexiform layer of the retina, positioned apical to the adherens junction at the OLM. This strategic localization suggests its importance in maintaining retinal structure and function, particularly in photoreceptor organization and signaling pathways.