

Recombinant Human MPP5 Protein (Asn455-Arg676), His tagged

Cat. No. MPP5-2957H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MPP5 (Asn455-Arg676) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asn455-Arg676
Description	Plays a role in tight junction biogenesis and in the establishment of cell polarity in epithelial cells. Also involved in adherens junction biogenesis by ensuring correct localization of the exocyst complex protein EXOC4/SEC8 which allows trafficking of adherens junction structural component CDH1 to the cell surface. Plays a role through its interaction with CDH5 in vascular lumen formation and endothelial membrane polarity. Required during embryonic and postnatal retinal development. Required for the maintenance of cerebellar progenitor cells in an undifferentiated proliferative state, preventing premature differentiation, and is required for cerebellar histogenesis, fissure formation and cerebellar layer organization. Plays a role in the radial and longitudinal extension of the myelin sheath in Schwann cells. May modulate SC6A1/GAT1-mediated GABA uptake by stabilizing the transporter. Plays a role in the T-cell receptor-mediated activation of NF-kappa-B. Required for localization of EZR to the apical membrane of parietal cells and may play a role in the dynamic remodeling of the apical cytoskeleton. Required for the normal polarized

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	localization of the vesicular marker STX4. Required for the correct trafficking of the myelin proteins PMP22 and MAG.
Molecular Mass	25.96 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	MPP5 membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5) [Homo sapiens (human)]
Official Symbol	MPP5
Synonyms	MPP5; membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5); MAGUK p55 subfamily member 5; FLJ12615; PALS1; stardust; protein associated with lin seven 1;

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Gene ID	64398
mRNA Refseq	NM_001256550
Protein Refseq	NP_001243479
MIM	606958
UniProt ID	Q8N3R9

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