

Recombinant Human MPP1, His-tagged

Cat. No. MPP1-29357TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 32-466 of Human MPP1 with N terminal His tag; 435 amino acids, 56kDa.
Species	Human
Source	E.coli
ProteinLength	32-466 a.a.
Description	This gene encodes the prototype of the membrane-associated guanylate kinase (MAGUK) family proteins. MAGUKs interact with the cytoskeleton and regulate cell proliferation, signaling pathways, and intercellular junctions. The encoded protein is an extensively palmitoylated membrane phosphoprotein containing a PDZ domain, a Src homology 3 (SH3) motif, and a guanylate kinase domain. This gene product interacts with various cytoskeletal proteins and cell junctional proteins in different tissue and cell types, and may be involved in the regulation of cell shape, hair cell development, neural patterning of the retina, and apico-basal polarity and tumor suppression pathways in non-erythroid cells. Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Tissue specificity	Ubiquitous.
Form	Lyophilised:Reconstitute with 90 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RPEAVSHPLNTVTEDMYTNGSPAPGSPAQVKGQEVKRVRL IQFEKVTEEPMGITLK LNEKQSCTVARILHGGMIHRQG SLHVGDEILEINGTNVTNHSVDQLQKAMKETKGM SLKVIPNQQSRLPALQMFMRAQFDYDPKKDNLIPCKEAGLKFA TGDIIQIINKDDSNW WQGRVEGSSKESAGLIPSELQE WRVASMAQSAPSEAPSCSPFGKKKKYKDKYLA KHSSIFDQLDVVSYEEVVRLPAFKRKTLVLIGASGVGRSHIKNALL SQNPEKFVYPVP YTTRPPRKSEEDGKEYHFISTEEMTR NISANEFLEFGSYQGNMFGTKFETVHQIHK QNKIAILDIEPQTLKIVRTAELSPFIVFIAPTDQGTQTEALQQLQKDS EAIRSQYAHYFD LSLVNNGVDETLKKLQEAQACSSP QWVPVSWVY
Sequence Similarities	Belongs to the MAGUK family.Contains 1 guanylate kinase-like domain.Contains 1 PDZ (DHR) domain.Contains 1 SH3 domain.

GENE INFORMATION

Gene Name	MPP1 membrane protein, palmitoylated 1, 55kDa [Homo sapiens]
Official Symbol	MPP1
Synonyms	MPP1; membrane protein, palmitoylated 1, 55kDa; DXS552E, membrane protein, palmitoylated 1 (55kD); 55 kDa erythrocyte membrane protein; PEMP;
Gene ID	4354
mRNA Refseq	NM_001166460
Protein Refseq	NP_001159932

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MIM	305360
Uniprot ID	Q00013
Chromosome Location	Xq28
Function	guanylate kinase activity; protein binding;

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