

Recombinant Mouse Plpp3 Protein, Myc/DDK-tagged

Cat. No. Plpp3-4940M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phospholipid phosphatase 3 (Plpp3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Magnesium-independent phospholipid phosphatase of the plasma membrane that catalyzes the dephosphorylation of a variety of glycerolipid and sphingolipid phosphate esters including phosphatidate/PA, lysophosphatidate/LPA, diacylglycerol pyrophosphate/DGPP, sphingosine 1-phosphate/S1P and ceramide 1-phosphate/C1P. Also acts on N-oleoyl ethanolamine phosphate/N-(9Z-octadecenoyl)-ethanolamine phosphate, a potential physiological compound. Has both an extracellular and an intracellular phosphatase activity, allowing the hydrolysis and the cellular uptake of these bioactive lipid mediators from the milieu, regulating signal transduction in different cellular processes. Through the dephosphorylation of extracellular sphingosine-1-phosphate and the regulation of its extra- and intracellular availability, plays a role in vascular homeostasis, regulating endothelial cell migration, adhesion, survival, proliferation and the production of pro-inflammatory cytokines. By maintaining the appropriate levels of this lipid in the cerebellum, also ensure its proper development and function. Through its intracellular lipid phosphatase activity may act in early compartments of the secretory pathway, regulating the formation of Golgi to endoplasmic reticulum retrograde transport carriers.

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Molecular Mass	35.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Plpp3 phospholipid phosphatase 3 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Plpp3
Synonyms	Plpp3; phospholipid phosphatase 3; L; Pp; PRG; Lpp3; PRG-2; Ppab2b; Ppap2b; AV025606; D4Bwg0538e; D4Bwg1535e; 1110003O22Rik; 2610002D05Rik; phospholipid phosphatase 3; PAP-2b; PAP2-beta; PAP2b; lipid phosphate phosphohydrolase 3; phosphatidate phosphohydrolase type 2b; phosphatidic acid phosphatase 2b; phosphatidic acid phosphatase type 2B; EC 3.1.3.4
Gene ID	67916
mRNA Refseq	NM_080555
Protein Refseq	NP_542122

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UniProt ID

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