Recombinant Mouse Inpp5d Protein, Myc/DDK-tagged

Cat. No. Inpp5d-3547M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length inositol polyphosphate-5-phosphatase D (Inpp5d), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3) to produce PtdIns(3,4)P2, thereby negatively regulating the PI3K (phosphoinositide 3-kinase) pathways. Able also to hydrolyzes the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P3) and inositol 1,3,4,5-tetrakisphosphate. Acts as a negative regulator of B-cell antigen receptor signaling. Mediates signaling from the FC-gamma-RIIB receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. Acts as a negative regulator of myeloid cell proliferation/survival and chemotaxis, mast cell degranulation, immune cells homeostasis, integrin alpha-IIb/beta-3 signaling in platelets and JNK signaling in B-cells. Regulates proliferation of osteoclast precursors, macrophage programming, phagocytosis and activation and is required for endotoxin tolerance. Involved in the control of cell-cell junctions, CD32a signaling in neutrophils and modulation of EGF-induced phospholipase C activity. Key regulator of neutrophil migration, by governing the formation of the leading edge and polarization required for chemotaxis. Modulates FCGR3/CD16-mediated cytotoxicity in NK cells. Mediates the activin/TGF-beta-induced apoptosis through its Smad-dependent expression.

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Molecular Mass	133.5 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	Inpp5d inositol polyphosphate-5-phosphatase D [Mus musculus (house mouse)]
Official Symbol	Inpp5d
Synonyms	INPP5D; inositol polyphosphate-5-phosphatase D; phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1; SIP-145; p150Ship; SH2 containing inositol phosphotase; SH2-containing inositol phosphatase SHIP; SH2 domain-containing inositol phosphatase 1; inositol polyphosphate-5-phosphatase, 145 kDa; SH2 domain-containing inositol 5-phosphatase 1; SH2 domain-containing inositol-5-phosphatase 1; inositol polyphosphate-5-phosphatase of 145 kDa; Src homology 2 domain-containing inositol-5-phosphatase; phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase 1; SHIP; SHIP1; SHIP-1; s-SHIP; AI323613; MGC117680
Gene ID	16331
mRNA Refseq	NM_010566

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Protein Refseq	NP_034696
UniProt ID	Q9ES52

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