

Product datasheet for TP526128

Inpp5d (NM_010566) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse inositol polyphosphate-5-phosphatase D (Inpp5d), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR226128 representing NM_010566
Red=Cloning site Green=Tags(s)

MPAMVPGWNHGNITRSKAEELLSRAGKDGSLVRASESIPRAYALCVLFRNCVYTYRILPNEDDKFTVQA
SEGVPMRFFTKLDQLIDFYKKENMGLVTHLQYPVPLEEEDAIDEAEEDTVESVMSPPELPPRNIPMSAGP
SEAKDLPLATENPRAPEVTRLSLSETLFQRLQSMDSGLPEEHLKAIQDYLDSTQLLLDSDLKFGSSNLP
HLKLLMSLLCKELHGEVIRLPSLESQRLFDQQLSPGLRPRPQVPGEASPITMVAKLSQLTSLSSIED
KVKSLLHEGSESTNRRSLIPPVTFEVKSESLGIPQKMHKVDVESGKLIVKSKDGEDKFYSHKKILQL
IKSQKFLNKLVLVETEKEKILRKEYVFADSKKREGFCQLLQMKNKHSEQPEPDMITIFIGTWNMGNAP
PPKITSWFLSKGQGKTRDDSADYIPHDYVIGTQEDPLGEKEWLELLRHSLQEVTSMTFKTVAIHTLWN
IRIVWLAKPEHENRISHICTDNVKTGIANTLGNGAVGVSMFNGTSLGFVNSHLTSGSEKKLRRNQNYM
NILRFLALGDKLSPFNITHRFTHLFWLGDLYRVELPTWEAEAIQKIKQQQYSDLLAHDQLLLERKDDQ
KVFLHFEEEEITFAPTYRFERLTRDKYATKQKATGMKYNLPSWCDRVLWKSYPVHVVCQSYGSTSDIM
TSDHSPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLACYATLTKTSQTKFYLEFHSSCLESFVKSQEGE
NEEGSEGELVVRFGETLPKLPKPIISDPEYLLDQHILISIKSSDSESYGEGCIALRLETTEAQHPYITPL
THHGEMTGHRGEIKLQTSQGKMREKLYDFVKTTERDESSGMKCLKNLTSHPMRQWEPGRVPACGVSSL
NEMINPNYIGMGPFQPLHGKSTLSPDQQLTAWSYDQLPKDSSLGPRGEGPPTPPSPKPFSSST
ANRGPCPRVQEARPGDLGKVEALLQEDLLTKPEMFENPLYGSVSSFPKLVPRKEQESPKMLRKEPPPCP
DPGISSPSIVLPKAQEVESVKGTSKQAPVPVVGPTPRIRSFCTSSSAEGRMTSGDKSQGKPKASASSQAP
VPVKRPVKPSRSEMSQQTPIAPRPPLPVKSPAVLQLQHSKGRDYRDNTELPHHGKHRQEEGLLGRTAM
Q

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 133.5 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method



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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_034696
Locus ID:	16331
UniProt ID:	Q9ES52
RefSeq Size:	4940
Cytogenetics:	1 44.44 cM
RefSeq ORF:	3573
Synonyms:	p150Ship; s-SHIP; SHIP; SHIP-1; SHIP1; SIP-145
Summary:	<p>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 (By similarity). Able also to hydrolyzes the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P3) and inositol 1,3,4,5-tetrakisphosphate (PubMed:9367159). Acts as a negative regulator of B-cell antigen receptor signaling. Mediates signaling from the FC-gamma-R1IB 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.[UniProtKB/Swiss-Prot Function]</p>