Recombinant Full Length Human INPP5D Protein, C-Flag-tagged

Cat. No. INPP5D-718HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human INPP5D Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene is a member of the inositol polyphosphate-5-phosphatase (INPP5) family and encodes a protein with an N-terminal SH2 domain, an inositol phosphatase domain, and two C-terminal protein interaction domains. Expression of this protein is restricted to hematopoietic cells where its movement from the cytosol to the plasma membrane is mediated by tyrosine phosphorylation. At the plasma membrane, the protein hydrolyzes the 5' phosphate from phosphatidylinositol (3,4,5)-trisphosphate and inositol-1,3,4,5-tetrakisphosphate, thereby affecting multiple signaling pathways. The protein is also partly localized to the nucleus, where it may be involved in nuclear inositol phosphate signaling processes. Overall, the protein functions as a negative regulator of myeloid cell proliferation and survival. Mutations in this gene are associated with defects and cancers of the immune system. Deficiencies in the encoded protein, SHIP1, have been associated with Inflammatory Bowel Disease types such as Crohn's Disease and Ulcerative Colitis. Alternative splicing of this gene results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	133 kDa
AA Sequence	MVPCWNHGNITRSKAEELLSRTGKDGSFLVRASESISRAYALCVLYRNCVYTYRILP NEDDKFTVQASEG VSMRFFTKLDQLIEFYKKENMGLVTHLQYPVPLEEEDTGDDPE EDTESVVSPPELPPRNIPLTASSCEAK EVPFSNENPRATETSRPSLSETLFQRLQSM DTSGLPEEHLKAIQDYLSTQLAQDSEFVKTGSSSLPHLKK LTTLLCKELYGEVIRTLP SLESLQRLFDQQLSPGLRPRPQVPGEANPINMVSKLSQLTSLLSSIEDKVKA LLHEG PESPHRPSLIPPVTFEVKAESLGIPQKMQLKVDVESGKLIIKKSKDGSEDKFYSHKKIL QLIKSQ KFLNKLVILVETEKEKILRKEYVFADSKKREGFCQLLQQMKNKHSEQPEPD MITIFIGTWNMGNAPPPKK ITSWFLSKGQGKTRDDSADYIPHDIYVIGTQEDPLSEKE WLEILKHSLQEITSVTFKTVAIHTLWNIRIV VLAKPEHENRISHICTDNVKTGIANTLGN KGAVGVSFMFNGTSLGFVNSHLTSGSEKKLRRNQNYMNILR FLALGDKKLSPFNIT HRFTHLFWFGDLNYRVDLPTWEAETIIQKIKQQQYADLLSHDQLLTERREQKVFL HF EEEEITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPLVHVVCQS YGSTSDIMTSDH SPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLRCYATLKTKSQ TKFYLEFHSSCLESFVKSQEGENEEG SEGELVVKFGETLPKLKPIISDPEYLLDQHILI SIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHHG ELTGHFQGEIKLQTSQGKTRE KLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPCSGSSITEII NPNYMGV GPFGPPMPLHVKQTLSPDQQPTAWSYDQPPKDSPLGPCRGESPPTPPGQPPISPK KFLPSTAN RGLPPRTQESRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFP KPAPRKDQESPKMPRKEPPPCP EPGILSPSIVLTKAQEADRGEGPGKQVPAPRLRS FTCSSSAEGRAAGGDKSQGKPKTPVSSQAPVPAKRP IKPSRSEINQQTPPTPTPRP PLPVKSPAVLHLQHSKGRDYRDNTELPHHGKHRPEEGPPGPLGRTAMQTRTRPLE QKLISEEDLAANDILDYKDDDDKV
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.

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Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Insulin signaling pathway, Phosphatidylinositol signaling system
Full Length	Full L.

GENE INFORMATION

Gene Name	INPP5D inositol polyphosphate-5-phosphatase D [Homo sapiens (human)]
Official Symbol	INPP5D
Synonyms	SHIP; SHIP1; SHIP-1; hp51CN; SIP-145; p150Ship
Gene ID	3635
mRNA Refseq	NM_005541.5
Protein Refseq	NP_005532.2
MIM	601582

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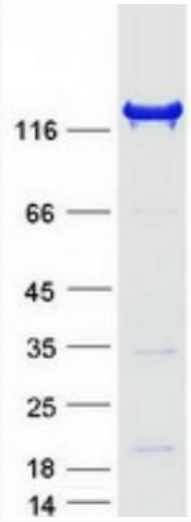
UniProt ID	Q92835



Coomassie blue staining of purified INPP5D protein.

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