

Product datasheet for TP312176L

SHIP (INPP5D) (NM_005541) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human inositol polyphosphate-5-phosphatase, 145kDa (INPP5D), transcript variant 2, 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC212176 representing NM_005541
Red=Cloning site Green=Tags(s)

MVPCWNHGNITRSKAEELLSRTGKDGSLVRASESISRAYALCVLYRNCVYTYRILPNEDDKFTVQASEG
VSMRFFTKLDQLIEFYKKENMGLVTHLQYPVPLEEEDTGDDPEEDTESVWSPPELPPRNIPLTASSCEAK
EVPFSNENPRATETSRPSLSETLFQRLQSMDSGLPEEHLKAIQDYLSLQLAQDSEFVKTGSSSLPHLKK
LTTLLCKELYGEVIRTLPSLESLQRLFDQQLSPGLRPRPQVPGEANPINMVSKLSQLTSLSSIEDKVKA
LLHEGPESPHRPSLIPVTFEVKAESLGIQKMQKLVKDVESGKLIKKSKDGSSEDKFYSHKKILQLIKSQ
KFLNKLVLVETEKEKILRKEYVFADSKKREGFCQLLQMKKNHSEQPEPDMITIFIGTWNMGNAPPPKK
ITSWFLSKGQKTRDDSADYIPHDYVIGTQEDPLSEKEWLEILKHSLQEITSVTFKTVAIHTLWNIRIV
VLAKPEHENRISHICTDNVKTGIANTLGNKGAVGVSMFNGTSLGFVNSHLTSGSEKKLRRNQNYMNILR
FLALGDKKLSPFNITHRFTHLFWFGDLNRYRVDLPTWEAETIIQKIKQQYADLLSHDQLLTERREQVFL
HFEETITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPVHVVCQSYGSTSDIMTSDH
SPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLRCYATLTKTSQTKFYLEFHSSCLESFVKSQEGENEEG
SEGELVVKFGETLPKLPKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHHG
ELTGHFQGEIKLQTSQGKTRKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPSCGSSITEII
NPNYMGVGPFGPPMPLHVKQTLSPDQPTAWSYDQPPKDSPLGPCRGPSPPTPPGQPPISPCKFLPSTAN
RGLPPRTQESRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFPKPAPRKDQESPKMPRKEPPPCP
EPGILSPSIVLTKAQEADRGEGPGKQVPAPRLRSFTCSSAEGRAAGGDKSQGPKTPVSSQAPVPAKRP
IKPSRSEINQQTPPTPTPRPPLPVKSPAVLHLQHSKGRDYRDNTELPHHGKHRPEEGPPGLGRTAMQ

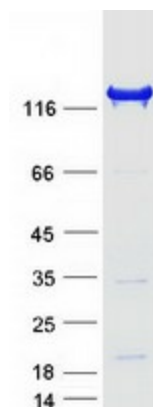
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 133 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining



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Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
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_005532
Locus ID:	3635
UniProt ID:	Q92835
RefSeq Size:	4925
Cytogenetics:	2q37.1
RefSeq ORF:	3564
Synonyms:	hp51CN; p150Ship; SHIP; SHIP-1; SHIP1; SIP-145
Summary:	<p>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. [provided by RefSeq, Jul 2020]</p>
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

Product images:

Coomassie blue staining of purified INPP5D protein (Cat# [TP312176]). The protein was produced from HEK293T cells transfected with INPP5D cDNA clone (Cat# [RC212176]) using MegaTran 2.0 (Cat# [TT210002]).