

Product datasheet for **TP312176M**

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, 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC212176 representing NM_005541
Red=Cloning site **Green**=Tags(s)

MVPCWNHGNITRSKAEELLSRTGKDGSLVRASEISRAYALCVLYRNCVYTYRILPNEDDKFTVQASEG
VSMRFFTKLDQLIEFYKKENMGLVTHLQYPVPLEEEDTGDDPEEDTESVSPPELPPRNIPLTASSCEAK
EVPFSNENPRATETSRPSLSETLFQRLQSMDSGLPEEHLKAIQDYLSTQLAQDSEFVKTGSSSLPHLKK
LTTLLCKELYGEVIRTLPSLESLLQRLFDQQLSPGLRPRQVPGEANPINMVSQKLSQLTSSLLSIEDKVKA
LLHEGPESPHRPSLIPPVTFEVKAESLGIPQKMQKVDVESGKLIKKSKDGSEDKFYSHKKILQLIKSQ
KFLNKLVLVETEKEKILRKEYVFADSKKREGFCQLLQMKKNHSEKPEPDMITIFIGTWNMGNAPPPKK
ITSWFLSKGQKTRDDSADYIPHDYVIGTQEDPLSEKEWLEILKHSLQEITSVTFTKVAIHTLWNIRIV
VLAKPEHENRISHICTDNVKTGIANTLGNKGAVGVSMFNGTSLGFVNSHLTSGSEKKLRRNQNYMNIILR
FLALGDKKLSPFNITHRFTHLFWFGDLNRYVDLPTWEAETIIQKIKQQYADLLSHDQLLTERREQKVFL
HFEETITFAPTYRFERLTRDKYATKQKATGMKYNLPSWCDRLVWKSYPVHVVCQSYGSTSDIMTSDH
SPVFATFEAGVTSQFVSKNGPGTVDSQGGQIEFLRCYATLTKTSQTKFYLFHSSCLESFVKSQEGENEEG
SEGELVVKFGETLPKLPKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHHG
ELTGHFQGEIKLQTSQGKTREKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPCSGSSITEII
NPNYMGVGPFGPPMPLHVKQTLSPDQQTAWSYDQPPKDSPLGPCRGESPTPPGQPPISPKKFLPSTAN
RGLPPRTQESRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFPPKAPRKDQESPKMPRKEPPPCP
EPGILSPSIVLTKAQEADRGEKQVPAAPRLRSFTCSSSAEGRAAGGDKSQGKPKTPVSSQAPVPAKRP
IKPSRSEINQQTPTPTPRPPLPVKSPAVLHLQHSKGRDYRDNTLPHHGKHRPEEGPPGPLGRTAMQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

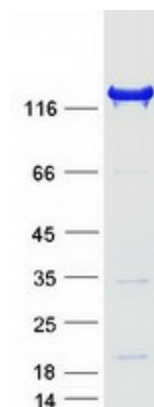
Predicted MW: 133 kDa

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
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:	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]
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]).