

## Product datasheet for TP312176

### 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, 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC212176 representing NM\_005541  
Red=Cloning site Green=Tags(s)

MVPCWNHGNITRSKAEELLSRTGKDGSLVRASESISRAYALCVLYRNCVYTYRILPNEDDKFTVQASEG  
VSMRFFTKLDQLIEFYKKENMGLVTHLQYPVPLEEEDTGDDPEEDTESVWSPPELPPRNIPLTASSCEAK  
EVPFSNENPRATETSRPSLSETLFQRLQSMDSGLPEEHLKAIQDYLLSTQLAQDSEFVKTGSSSLPHLKK  
LTTLLCKELYGEVIRTLPSLESLQRLFDQQLSPGLRPRPQVPGEANPINMVSKLSQLTSLSSIEDKVKA  
LLHEGPESPHRPSLIPPVTFEVKAESLGIPQKMQLKVDVESGKLIKKSKDGSSEDKFYSHKKILQLIKSQ  
KFLNKLVLVETEKEKILRKEYVFADSKKREGFCQLLQMQMKNKHSEQPEPDMITIFIGTWNMGNAPPPKK  
ITSWFLSKGQGKTRDDSADYIPHDYVIGTQEDPLSEKEWLEILKHSLQEITSVTFKTVAIHTLWNIRIV  
VLAKPEHENRISHICTDNVKTGIANTLGNKGAVGVSMFNGTSLGFVNSHLTSGSEKKLRRNQNYMNILR  
FLALGDKKLSPFNITHRFTHLFWFGDLNRYRVDLPTWEAETIIQKIKQQQYADLLSHDQLLTERREQVFL  
HFEETITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPVHVVCQSYGSTSDIMTSDH  
SPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLRCYATLTKTSQTKFYLEFHSSCLESFVKSQEGENEEG  
SEGELVVKFGETLPKLPKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHHG  
ELTGHFQGEIKLQTSQGKTREKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPSCGSSITEII  
NPNYMGVGPFGPPMPLHVKQTLSPDQQPTAWSYDQPPKDSPLGPCRGESPTPPGQPPISPCKFLPSTAN  
RGLPPRTQESRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFPAKPRKDQESPKMPRKEPPPCP  
EPGILSPSIVLTKAQEADRGEGPGKQVPAPRLRSFTCSSAEGRAAGGDKSQGKPKTPVSSQAPVPAKRP  
IKPSRSEINQQTPPTPTPRPPLPVKSPAVLHLQHSKGRDYRDNTELPHHGKHRPEEGPPGLGRTAMQ

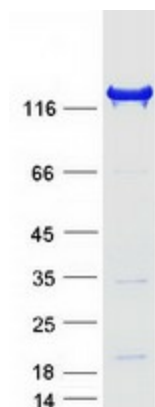
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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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<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005532</a>
<b>Locus ID:</b>	3635
<b>UniProt ID:</b>	<a href="#">Q92835</a>
<b>RefSeq Size:</b>	4925
<b>Cytogenetics:</b>	2q37.1
<b>RefSeq ORF:</b>	3564
<b>Synonyms:</b>	hp51CN; p150Ship; SHIP; SHIP-1; SHIP1; SIP-145
<b>Summary:</b>	<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>
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]).