

Recombinant Human INPP5B

Cat. No. INPP5B-27623TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human INPP5B with N terminal proprietary tag. Predicted MW 108.35 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	748 amino acids
Description	Cellular calcium signaling is controlled by the production of inositol phosphates (IPs) by phospholipase C in response to extracellular signals. The IP signaling molecules are inactivated by a family of inositol polyphosphate-5-phosphatases (5-phosphatases). This gene encodes the type II 5-phosphatase. The protein is localized to the cytosol and mitochondria, and associates with membranes through an isoprenyl modification near the C-terminus. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.
Molecular Weight	108.350kDa inclusive of tags
Tissue specificity	Platelets.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	<p>MDQSVAIQETLAEGEYCVIAVQGVLCESRQSRLLGLVR YRLEHGGQEHALFLYT HRRMAITGDDVSLDQIVPVSDFDFT LEEVSPDGELYILGSDVTVQLDTAELSLVFQLPF GSQTRM FLHEVARACPGFDSATRDPEFLWLSRYRCAELELEMPTR GCNSALVT WPGYATIGGGSNFDGLRPNKGKVPMDQSSRG QDKPESLQPRQNKSKSEITDMV RSSTITVSDKAHILSMQK FGLRDTIVKSHLLQKEEDYTYIQNFRFFAGTYNVNGQSPK ECLRLWLSNGIQAPDVYCVGFQELDLSKEAFFFHDTPKKE EWFKAVSEGLHPDAKY AKVKLIRLVGIMLLLYVKQEHAAY ISEVEAETVGTGIMGRMGKGGVAIRFQFHNTSI CVVNSH LAAHIEEYERRNQDYKDICSRMQFCQPDPSLPLTISNHD VILWLGDLNY RIEELDVEKVKKLIIEEKDFQMLYAYDQLKI QVAAKTVFEGFTEGELTFQPTYKYDTGS DDWDTSEKCRAP AWCDRILWKGKNITQLSYQSHMALKTSDHKPVSSVFDIGV RVV NDELYRKTL EEIVRSLDKMENANIPSVLSKREFCFQ NVKYMQLKVESFTIHNGQVP CHFEFINKPDEESYCKQWLN ANPSRGLLPDSDVEIDLELFFVNKTTATKLNSGEDKI EDI LVLHLDRGKDYFLSVSGNYLPSCFGSPIHTLCYMREPILD LPLETISELLAYLAAY CFETQLVTKSLI</p>
Sequence Similarities	Belongs to the inositol-1,4,5-trisphosphate 5-phosphatase type II family. Contains 1 Rho-GAP domain.

GENE INFORMATION

Gene Name	INPP5B inositol polyphosphate-5-phosphatase, 75kDa [Homo sapiens]
Official Symbol	INPP5B
Synonyms	INPP5B; inositol polyphosphate-5-phosphatase, 75kDa; inositol polyphosphate 5

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phosphatase, 75kD; type II inositol-1,4,5-trisphosphate 5-phosphatase;

Gene ID [3633](#)

mRNA Refseq [NM_005540](#)

Protein Refseq [NP_005531](#)

MIM [147264](#)

Uniprot ID [P32019](#)

Chromosome Location 1p34

Pathway 1D-myo-inositol hexakisphosphate biosynthesis II (mammalian), conserved biosystem; 3-phosphoinositide degradation, conserved biosystem; D-myo-inositol (1,3,4)-trisphosphate biosynthesis, conserved biosystem; D-myo-inositol (1,4,5)-trisphosphate degradation, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem;

Function hydrolase activity; inositol-polyphosphate 5-phosphatase activity; phosphatidylinositol-4,5-bisphosphate 5-phosphatase activity; protein binding;

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