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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents: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	MDQSVAIQETLAEGEYCVIAVQGVLCEGDSRQSRLLGLVR YRLEHGGQEHALFLYT HRRMAITGDDVSLDQIVPVSRDFT LEEVSPDGELYILGSDVTVQLDTAELSLVFQLPF GSQTRM FLHEVARACPGFDSATRDPEFLWLSRYRCAELELEMPTPR GCNSALVT WPGYATIGGGGSNFDGLRPNGKGVPMDQSSRG QDKPESLQPRQNKSKSEITDMV RSSTITVSDKAHILSMQK FGLRDTIVKSHLLQKEEDYTYIQNFRFFAGTYNVNGQSPK ECLRLWLSNGIQAPDVYCVGFQELDLSKEAFFFHDTPKEE EWFKAVSEGLHPDAKY AKVKLIRLVGIMLLLYVKQEHAAY ISEVEAETVGTGIMGRMGNKGGVAIRFQFHNTSI CVVNSH LAAHIEEYERRNQDYKDICSRMQFCQPDPSLPPLTISNHD VILWLGDLNY RIEELDVEKVKKLIEEKDFQMLYAYDQLKI QVAAKTVFEGFTEGELTFQPTYKYDTGS DDWDTSEKCRAP AWCDRILWKGKNITQLSYQSHMALKTSDHKPVSSVFDIGV RVV NDELYRKTLEEIVRSLDKMENANIPSVSLSKREFCFQ NVKYMQLKVESFTIHNGQVP CHFEFINKPDEESYCKQWLN ANPSRGFLLPDSDVEIDLELFVNKTTATKLNSGEDKI EDI LVLHLDRGKDYFLSVSGNYLPSCFGSPIHTLCYMREPILD LPLETISELLAYLAAY CFETQLVTKSLI
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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