Recombinant Full Length Human INPP5E Protein, C-Flag-tagged

Cat. No. INPP5E-489HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human INPP5E Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is an inositol 1,4,5-trisphosphate (InsP3) 5-phosphatase. InsP3 5-phosphatases hydrolyze Ins(1,4,5)P3, which mobilizes intracellular calcium and acts as a second messenger mediating cell responses to various stimulation. Studies of the mouse counterpart suggest that this protein may hydrolyze phosphatidylinositol 3,4,5-trisphosphate and phosphatidylinositol 3,5-bisphosphate on the cytoplasmic Golgi membrane and thereby regulate Golgi-vesicular trafficking. Mutations in this gene cause Joubert syndrome; a clinically and genetically heterogenous group of disorders characterized by midbrain-hindbrain malformation and various associated ciliopathies that include retinal dystrophy, nephronophthisis, liver fibrosis and polydactyly. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	70 kDa
AA Sequence	MPSKAENLRPSEPAPQPPEGRTLQGQLPGAPPAQRAGSPPDAPGSESPALACSTP

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	ATPSGEDPPARAAPI APRPPARPRLERALSLDDKGWRRRRFRGSQEDLEARNGTS PSRGSVQSEGPGAPAHSCSPPCLSTSLQEI PKSRGVLSSERGSPSSGGNPLSGVA SSSPNLPHRDAAVAGSSPRLPSLLPPRPPPALSLDIASDSLRTAN KVDSDLADYKLR AQPLLVRAHSSLGPGRPRSPLACDDCSLRSAKSSFSLLAPIRSKDVRSRSYLEGSLL A SGALLGADELARYFPDRNVALFVATWNMQGQKELPPSLDEFLLPAEADYAQDLYV IGVQEGCSDRREWET RLQETLGPHYVLLSSAAHGVLYMSLFIRRDLIWFCSEVECS TVTTRIVSQIKTKGALGISFTFFGTSFLF ITSHFTSGDGKVAERLLDYTRTVQALVLPR NVPDTNPYRSSAADVTTRFDEVFWFGDFNFRLSGGRTVVD ALLCQGLVVDVPALL QHDQLIREMRKGSIFKGFQEPDIHFLPSYKFDIGKDTYDSTSKQRTPSYTDRVLY RS RHKGDICPVSYSSCPGIKTSDHRPVYGLFRVKVRPGRDNIPLAAGKFDRELYLLGIKR RISKEIQRQQ ALQSQNSSTICSVSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

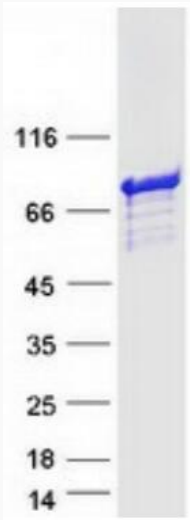
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Full Length	Full L.

GENE INFORMATION

Gene Name	INPP5E inositol polyphosphate-5-phosphatase E [Homo sapiens (human)]
Official Symbol	INPP5E
Synonyms	CPD4; CORS1; JBTS1; MORMS; PPI5PIV; pharbin
Gene ID	56623
mRNA Refseq	NM_019892.6
Protein Refseq	NP_063945.2
MIM	613037
UniProt ID	Q9NRR6

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Coomassie blue staining of purified INPP5E protein.

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