

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 PKSRGVLSSERGSPPSSGGNPLSGVA
 SSSPNLPHRDAAVAGSSPRLPSLLPPRPPPALSLDIASDSLRTAN KVDSLADYKLR
 AQPLLVAHSSLGPGRPRSPLACDDCSLRSKSSFSLLAPIRSKDVRSRSYLEGSL
 A SGALLGADELARYFPDRNVALFVATWNMQGQKELPPSLDEFLLPAEADYAQDLYV
 IGVEGCSDRREWET RLQETLPHYVLLSSAAHGVLYMSLFIRRDLIWFCSEVECS
 TVTTRIVSQIKTKGALGISFTFFGTSLF ITSHFTSGDGKVAERLLDYTRTVQALVLP
 NVPDTNPYRSSAADVTTRFDEVFWFGDFNFRLSGGRTVVD ALLCQGLVVDVPALL
 QHDQLIREMRKGSIFKGFQEPDIHFLPSYKFDIGKDTYDSTSKQRTPSYTDRLVLY RS
 RHKGDICPVSYSSCPGIKTS DHRPVYGLFRVKVRPGRDNIPLAAGKFDRELYLLGIKR
 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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