

## Product datasheet for TP306984M

### INPP5E (NM\_019892) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human inositol polyphosphate-5-phosphatase, 72 kDa (INPP5E), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206984 representing NM_019892 Red=Cloning site Green=Tags(s)

MPSKAENLRPSEPAPQPPEGRTLQGQLPGAPPAQRAGSPPDAPGSESPALACSTPATPSGEDPPARAAPI  
APRPPARPRLERALSDDKGWRRRRFRGSQEDLEARNGTSPSRGVSQSEGPGAPAHSCSPPLCSTLSLQEI  
PKSRGVLSSERGSPSSGGNPLSGVASSPNLPHRDAAVAGSSPRLPSLLPPRPPPALSLDIASDSLRTAN  
KVDSLADYKLRAQPLLVRAHSSLGPGRPRSPPLACDDCSLRSKSSFSLLAPIRSKDVRSRSYLEGSLLA  
SGALLGADELARYFPDRNVALFVATWNMQGQKELPPSLDEFLLPAEADYAQDLYVIGVQEGCSDRREWET  
RLQETLGPYVLLSSAAHGVLYMSLFIRRDLIWFCSEVECSTVTRIVSQIKTKGALGISFTFFGTSLFL  
ITSHFTSGDGKVAERLLDYTRTVQALVLPNVPDTNPYRSSAADVTRFDEVFVWFGDFNRLSGGRTVVD  
ALLCQGLVVDVPALLQHDQLIREMRKGSIFKGFQEPDIHFLPSYKFDIGKDYDSTSKQRTPSYTDRLVY  
RSRHKGDICPVSYS SCPGIKTS DHRPVYGLFRVKVRPGRDNIPLAAGKFDRELYLLGIKRRISKEIQRQQ  
ALQSQNSSTICSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	70 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_063945](#)

**Locus ID:** 56623

**UniProt ID:** [Q9NRR6](#)

**RefSeq Size:** 3440

**Cytogenetics:** 9q34.3

**RefSeq ORF:** 1932

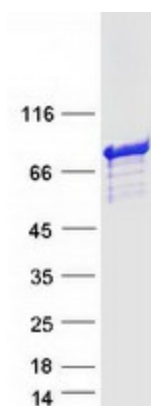
**Synonyms:** CORS1; CPD4; JBTS1; MORMS; pharbin; PPI5PIV

**Summary:** 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 heterogeneous 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. [provided by RefSeq, Jan 2016]

**Protein Families:** Druggable Genome

**Protein Pathways:** Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

### Product images:



Coomassie blue staining of purified INPP5E protein (Cat# [TP306984]). The protein was produced from HEK293T cells transfected with INPP5E cDNA clone (Cat# [RC206984]) using MegaTran 2.0 (Cat# [TT210002]).