Recombinant Human INPP5E Protein, MYC/DDK-tagged

Cat. No. INPP5E-2396H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human INPP5E protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
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
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	INPP5E inositol polyphosphate-5-phosphatase, 72 kDa [Homo sapiens]
Official Symbol	INPP5E
Synonyms	CORS1; CPD4; JBTS1; MORMS; PPI5PIV
Gene ID	56623
mRNA Refseq	NM_019892
Protein Refseq	NP_063945
MIM	613037
UniProt ID	Q9NRR6

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