

Recombinant Human PPIP5K1 cell lysate

Cat. No. PPIP5K1-793HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	Inositol phosphates (IPs) and diphosphoinositol phosphates (PP-IPs), also known as inositol pyrophosphates, act as cell signaling molecules. HISPPD2A has both IP6 kinase (EC 2.7.4.21) and PP-IP5 (also called IP7) kinase (EC 2.7.4.24) activities that produce the high-energy pyrophosphates PP-IP5 and PP2-IP4 (also called IP8), respectively (Fridy et al., 2007 [PubMed 17690096]).
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	PPIP5K1 diphosphoinositol pentakisphosphate kinase 1 [Homo sapiens]
Official Symbol	PPIP5K1
Synonyms	PPIP5K1; diphosphoinositol pentakisphosphate kinase 1; HISPPD2A, histidine acid phosphatase domain containing 2A; inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1; IPS1; KIAA0377; VIP1; IP6 kinase; VIP1 homolog;

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	insP6 and PP-IP5 kinase 1; inositol pyrophosphate synthase 1; histidine acid phosphatase domain containing 2A; histidine acid phosphatase domain-containing protein 2A; IP6K; hsVIP1; HISPPD2A; MGC51871; DKFZp313L0221;
Gene ID	9677
mRNA Refseq	NM_001130858
Protein Refseq	NP_001124330
MIM	610979
UniProt ID	Q6PFW1
Chromosome Location	15q15.3
Pathway	inositol pyrophosphates biosynthesis, organism-specific biosystem; inositol pyrophosphates biosynthesis, conserved biosystem; superpathway of inositol phosphate compounds, organism-specific biosystem;
Function	ATP binding; acid phosphatase activity; diphosphoinositol-pentakisphosphate kinase activity; inositol hexakisphosphate 1-kinase activity; inositol hexakisphosphate 3-kinase activity; inositol hexakisphosphate 5-kinase activity; inositol-1,3,4,5,6-pentakisphosphate kinase activity; kinase activity; nucleotide binding; transferase activity;