

Recombinant Human PPIP5K1, His-tagged

Cat. No. PPIP5K1-13788H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPIP5K1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-301a.a.
Description	This gene encodes a dual functional inositol kinase. The encoded enzyme converts inositol hexakisphosphate to diphosphoinositol pentakisphosphate and diphosphoinositol pentakisphosphate to bis-diphosphoinositol tetrakisphosphate. This protein may be important for intracellular signaling pathways. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 15.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

Gene Name	PPIP5K1 diphosphoinositol pentakisphosphate kinase 1 [Homo sapiens]
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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; 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-pentakis