

## Recombinant Human INPP5K, His-tagged

Cat. No. INPP5K-31407TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 51-372 of Human SKIP isoform 2, with N terminal His tag; 332 amino acids, 39kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	51-372 a.a.
<b>Description</b>	This gene encodes a protein with 5-phosphatase activity toward polyphosphate inositol. The protein localizes to the cytosol in regions lacking actin stress fibers. It is thought that this protein may negatively regulate the actin cytoskeleton. Alternatively spliced transcript variants encoding different isoforms have been identified.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Ubiquitously expressed with highest levels in skeletal muscle, heart and kidney.
<b>Form</b>	Lyophilised:Reconstitution with 94 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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**Sequences of amino acids**

GNKGGVNICLKLYGYVSIINCHLPPHISNNYQRLEHFDR ILEMQNCEGRDIPNILDH  
 DLIWFGDMNFRIEDFGLHF VRESIKNRCYGGLWEKDQLSIAKKHDPDLLREFQEGRL  
 L FPPTYKFDRNSNDYDTSEKRRKPAWTDRLWRLKRQPC AGPDTPIPPASHFSLSL  
 RGYSSHMTYGISDHKPVSGTF DLELKPLVSAPLIVLMPEDLWTVENDMMVSYSSSTS  
 DFP SSPWDWIGLYKVGLRDVNDYVSYAWVGDSKVSCSDNLN QVYIDISNIPTTEDE  
 FLLCYYSNSLRSVVGISRPFQIPPG SLREDPLGEAQPQI

**Sequence Similarities**

Belongs to the inositol-1,4,5-trisphosphate 5-phosphatase type II family.

## GENE INFORMATION

**Gene Name** [INPP5K inositol polyphosphate-5-phosphatase K \[ Homo sapiens \]](#)

**Official Symbol** [INPP5K](#)

**Synonyms** INPP5K; inositol polyphosphate-5-phosphatase K; inositol polyphosphate 5-phosphatase K; skeletal muscle and kidney enriched inositol phosphatase; SKIP;

**Gene ID** [51763](#)

**mRNA Refseq** [NM\\_001135642](#)

**Protein Refseq** [NP\\_001129114](#)

**MIM** [607875](#)

**Uniprot ID** [Q9BT40](#)

**Chromosome Location** 17p13.3

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**Pathway**

1D-myo-inositol hexakisphosphate biosynthesis II (mammalian), conserved biosystem; 3-phosphoinositide degradation, conserved biosystem; D-myo-inositol (1,3,4)-trisphosphate biosynthesis, conserved biosystem; D-myo-inositol (1,4,5)-trisphosphate degradation, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem;

**Function**

hydrolase activity; inositol 1,3,4,5-tetrakisphosphate 5-phosphatase activity; inositol bisphosphate phosphatase activity; inositol trisphosphate phosphatase activity; inositol-1,4,5-trisphosphate 5-phosphatase activity;

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