

Recombinant Human INPP1, His-tagged

Cat. No. INPP1-117H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Inositol Polyphosphate 1-Phosphatase/INPP1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Thr399) of Human INPP1 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-399 a.a.
Description	Inositol Polyphosphate 1-Phosphatase (INPP1) is a member of the inositol monophosphatase family. INPP1 is widely expressed in tissues, with highest expression levels observed in the pancreas and kidney. INPP1 is inhibited by Li ⁺ . Removing the phosphate group at position 1 of the inositol ring from the polyphosphates inositol 1,4-bisphosphate and inositol 1,3,4-trisphosphosphate. INPP1 is involved in signal transduction and phosphatidylinositol signaling pathway.
AA Sequence	MSDILRELLCVSEKAANIARACRQQEALFQLLIEEKKEGEKNKKFAVDFKTLADVLVQ EVIKQNM ENKFPGLEKNIFGEESNEFTNDWGEKITLRLCSTEEETAELLSKVLNGNK VASEALARVVHQDVA FTDPTLDSTEINVPQDILGIWVDPIDSTYQYIKGSADIKSNQGI FPCGLQCVTILIGVYDIQTGV PLMGVINQPFVSRDPNTRLRWKGQCYWGLSYMGTNM HSLQLTISRRNGSEHTGTGSEAAFSFSAVISTSEKETIKAALSRVCGDRIFGAA GAGYKSLCVVQGLVDIYIFSEDITTFKWDSCAAHAILR AMGGGIVDLKECLERNPETG

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LDLPQLVYHVENEGAAGVDRWANKGGLIAYRSRKRLTFLSLLVQ NLAPAETHTVQ
HHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

GENE INFORMATION

Gene Name INPP1 inositol polyphosphate-1-phosphatase [Homo sapiens]

Official Symbol INPP1

Synonyms INPP1; inositol polyphosphate-1-phosphatase; inositol polyphosphate 1-phosphatase; IPP; IPPase; MGC110984;

Gene ID 3628

mRNA Refseq NM_001128928

Protein Refseq NP_001122400

MIM 147263

UniProt ID P49441

Chromosome Location 2q32

Pathway D-myo-inositol (1,4,5)-trisphosphate degradation, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate degradation, conserved biosystem; Inositol

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phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, $\text{Ins}(1,3,4,5)\text{P}_4 \Rightarrow \text{Ins}(1,3,4)\text{P}_3 \Rightarrow \text{myo-inositol}$, organism-specific biosystem;

Function

hydrolase activity; inositol-1,4-bisphosphate 1-phosphatase activity; metal ion binding;

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