

INPP1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70361
Synonyms:	rHulnitol polyphosphate 1-phosphatase/INPP1, His; Inositol Polyphosphate 1-Phosphatase; IPP; IPPase; INPP1
Species:	Human
Source:	HEK293
Accession:	P49441 (M1-T399)
Gene ID:	3628
Molecular Weight:	40-50 kDa

PROPERTIES

AA Sequence	<pre> MSDILRELLC VSEKAANIAR ACRQQEALFQ LLIEEKKEGE KNKKFAVDFK TLADVLVQEV IKQNMENKFP GLEKNIFGEE SNEFTNDWGE KITLRLCSTE EETAELLSKV LNGNKVASEA LARVVHQDVA FTDPTLDSTE INV PQDILGI WVDPIDSTYQ YIKGSADIKS NQGIFPCGLQ CVTILIGVYD IQTGVPLMGV INQPFVSRDP NTLRWKGQCY WGLSYMGTMN HSLQLTISR R NGSEHTGTNT GSEAAFSPSF SAVISTSEKE TIKAALSRVC GDRIFGAAGA GYKSLC VVQG LVDIYIFSED TTFKWDSCAA HAILRAMGGG IVDLKECLER NPETGLDLPQ LVYHVENEGA AGVDRWANKG GLIAYRSRKR LETFLSLLVQ NLAPAETH T </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, 5% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	INPP1 protein, also known as inositol polyphosphate-1-phosphatase, is a phosphatase enzyme that plays a crucial role in
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the metabolism of inositol phosphate. This protein is dependent on magnesium ions for its activity and is responsible for catalyzing the hydrolysis of the phosphate group at the 1-position of inositol 1,4-bisphosphate and inositol 1,3,4-trisphosphate. This enzymatic activity is essential for regulating the levels of these inositol phosphate molecules within the cell. By removing the phosphate group, INPP1 protein helps to maintain the balance of inositol phosphate signaling pathways, which are involved in various cellular processes such as intracellular signaling, membrane trafficking, and vesicle fusion. The precise role of INPP1 protein in these processes and its impact on cellular function warrant further investigation.

Caution: Product has not been fully validated for medical applications. For research use only.

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