

# Recombinant Human ITPKA Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. ITPKA-270H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	ITPKA MS Standard C13 and N15-labeled recombinant protein (NP_002211) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P4. The activity of the inositol 1,4,5-trisphosphate 3-kinase is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity. It is also a substrate for the cyclic AMP-dependent protein kinase, calcium/calmodulin-dependent protein kinase II, and protein kinase C in vitro. [provided by RefSeq, Apr 2011]
<b>Molecular Mass</b>	51 kDa
<b>AA Sequence</b>	MTLPGGPTGMARPGGARPCSPGLERAPRRSVGELRLLFEARCAAVAAAAAAGEPR ARGAKRRGGQVPNGLQRAPPAPVIPQLTVTAEEPDPPTSPGPPERERDCLPAAGS SHLQQPRRLSTSSVSSTGSSSLLEDSEDDLSDSESRSRGNVQLEAGEDVGQKNH WQKIRTMVNLPVISPFKKRYAWVQLAGHTGSFKAAGTSGLILKRCSEPERYCLARLM ADALRGCVPAFHGVVERDGESYLQLQDLLDGFDPVLDCKMGVRTYLEEELTKA

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RERPCLRKDMYKKMLAVDPEAPTEEEHAQRAVTKPRYMQWREGISSSTTLGFRIEG  
 IKKADGSCSTDFKTTTRSREQVLRVFEEFVQGDEEVLRRYLNRLQQIRDRTLEVSEFFR  
 RHEVIGSSLLFVHDHCHRAGVWLIDFGKTTPLPDGQILDHRRPWEEGNREDGYLLG  
 LDNLIGILASLAERTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** ITPKA inositol-trisphosphate 3-kinase A [ Homo sapiens (human) ]

**Official Symbol** ITPKA

**Synonyms** ITPKA; inositol-trisphosphate 3-kinase A; inositol 1,4,5 trisphosphate 3 kinase A; IP3 3KA; IP3KA; IP3K A; IP3 3-kinase A; insP 3-kinase A; inositol 1,4,5-trisphosphate 3-kinase A; IP3-3KA;

**Gene ID** 3706

**mRNA Refseq** NM\_002220

**Protein Refseq** NP\_002211

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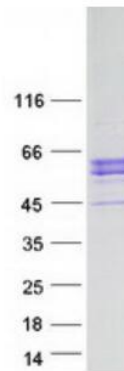
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**MIM** 147521

**UniProt ID** P23677

**SDS-PAGE**



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