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

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

SPECIFICATION

Product Overview	ITPKA MS Standard C13 and N15-labeled recombinant protein (NP_002211) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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]
Molecular Mass	51 kDa
AA Sequence	MTLPGGPTGMARPGGARPCSPGLERAPRRSVGELRLLFEARCAAVAAAAAAGEPR ARGAKRRGGQVPNGLQRAPPAPVIPQLTVTAEEPDVPPTSPGPPERERDCLPAAGS SHLQQPRRLSTSSVSSTGSSSLLEDSEDDLLSDSESRSRGNVQLEAGEDVGQKNH WQKIRTMVNLPVISPFKKRYAWVQLAGHTGSFKAAGTSGLILKRCSEPERYCLARLM ADALRGCVPAFHGVVERDGESYLQLQDLLDGFDGPCVLDCKMGVRTYLEEELTKA

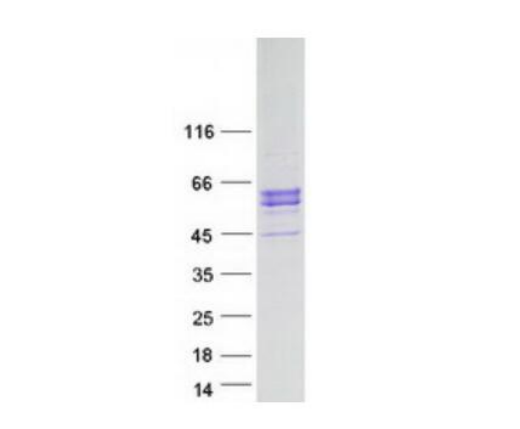
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	RERPKLRKDMYKKMLAVDPEAPTEEEHAQRAVTKPRYMQWREGISSSTTLGFRIEG IKKADGSCSTDFKTTRSREQVLRVFEEFVQGDEEVLRRYLNRLQQIRDTLEVSEFFR RHEVIGSSLLFVHDHCHRAGVWLIDFGKTTPLPDGQILDHRRPWEEGNREDGYLLG LDNLIGILASLAERTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by 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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MIM	147521
UniProt ID	P23677
SDS-PAGE	

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