

Recombinant Full Length Human ITPKA Protein, C-Flag-tagged

Cat. No. ITPKA-1222HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ITPKA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P ₄ . 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	50.8 kDa
AA Sequence	MTLPGGPTGMARPGGARPCSPGLERAPRRSVGELRLLFEARCAAVAAAAAAGEPR ARGAKRRGGQVPNGL QRAPPAPVIPQLTVTAEEPDPPTSPGPPERERDCLPAAG SSHLQQPRRLSTSSVSSTGSSSLLEDSEDD LLSDSESRSRGNVQLEAGEDVGQKN HWQKIRTMVNLPVISPFKKRYAWVQLAGHTGSFKAAGTSGILIKR CSEPERYCLAR LMADALRGCVPAFHGVVERDGESYLQLQDLLDGFDPVLDCKMGVVRTYLEEELT KARE RPKLRKDMYKKMLAVDPEAPTEEEHAQRAVTKPRYMQWREGISSSTTLGFRI

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EGIKKADGSCSTDFKTR SREQVLRVFEEFVQGDEEVLRRYLNRLQQIRDTELVSEF
 FRRHEVIGSSLLFVHDHCHRAGVWLIDFGKT
 TPLPDGQILDHRRPWEEGNREDGYLLGLDNLIGILASLAERTRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Full Length	Full L.

GENE INFORMATION

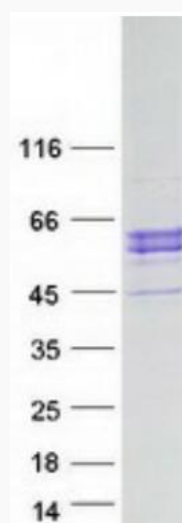
Gene Name	ITPKA inositol-trisphosphate 3-kinase A [Homo sapiens (human)]
Official Symbol	ITPKA
Synonyms	IP3KA; IP3-3KA

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Gene ID	3706
mRNA Refseq	NM_002220.3
Protein Refseq	NP_002211.1
MIM	147521
UniProt ID	P23677



Coomassie blue staining of purified ITPKA protein.