

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

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

## SPECIFICATION

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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EGIKKADGSCSTDFKTR SREQVLRVFEEFVQGDEEVLRRYLNRLQQIRDTELVSEF  
 FRRHEVIGSSLLFVHDHCHRAGVWLIDFGKT  
 TPLPDGQILDHRRPWEEGNREDGYLLGLDNLIGILASLAERTRTRPLEQKLISEEDLA  
 ANDILDYKDDDDKV

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

## GENE INFORMATION

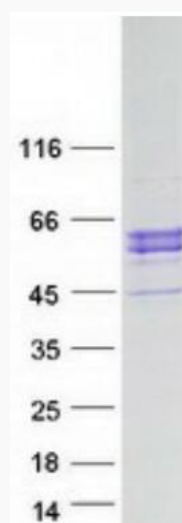
|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <b>Gene Name</b>       | ITPKA inositol-trisphosphate 3-kinase A [ Homo sapiens (human) ] |
| <b>Official Symbol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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                |             |
|----------------|-------------|
| 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.