# Recombinant Human ITPKA Protein, MYC/DDK-tagged

**Cat. No.** ITPKA-2641H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human ITPKA protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293. |
| **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. |
| **Form** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 50.8 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration** | >50 ug/mL as determined by microplate BCA method |

## GENE INFORMATION

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| **Gene Name** | ITPKA inositol-trisphosphate 3-kinase A [ Homo sapiens ] |
| **Official Symbol** | ITPKA |
| **Synonyms** | IP3-3KA; IP3KA |
| **Gene ID** | 3706 |
| **mRNA Refseq** | NM_002220 |
| **Protein Refseq** | NP_002211 |
| **MIM** | 147521 |
| **UniProt ID** | P23677 |

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