

## Product datasheet for **TP305323M**

### ITPKA (NM\_002220) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human inositol 1,4,5-trisphosphate 3-kinase A (ITPKA), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC205323 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MTLPGGPTGMARPGGARPCSPGLERAPRRSVGELRLLFEARCAAVAAAAAAGEPRRARGAKRRGGQVPNGL  
QRAPPAPVIPQLTVTAEEPDPPTSPGPPERERDCLPAAGSSHLQQRRLSTSSVSSTGSSSLLDESEDD  
LLSDSESRSGNVQLEAGEDVGQKNHWQKIRTMVNLPVISPFKKRYAWVQLAGHTGSFKAAGTSGLILKR  
CSEPERYCLARLMADALRGCVPAFHGVVERDGESYLQLQDLLDGFDPVCVLDCKMGVRTYLEEELTKARE  
RPKLRKDMYKMLAVDPEAPTEEEHAQRAVTKPRYMQWREGISSSTLGFRIEGIKKADGSCSTDFKTRR  
SREQVLRVFEEFVQGDDEEVLRRYLNRLQQIRDTELVSEFFRRHEVIGSSLLFVHDHCHRAGVWLIDFGKT  
TPLPDGQILDHRRPWEEGNREDGYLLGLDNLIGILASLAER

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 50.8 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_002211](#)



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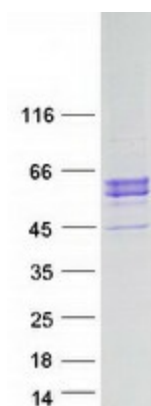
Locus ID: 3706  
UniProt ID: [P23677](#)  
RefSeq Size: 1864  
Cytogenetics: 15q15.1  
RefSeq ORF: 1383  
Synonyms: IP3-3KA; IP3KA

**Summary:** 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. [provided by RefSeq, Apr 2011]

**Protein Families:** Druggable Genome

**Protein Pathways:** Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

### Product images:



Coomassie blue staining of purified ITPKA protein (Cat# [TP305323]). The protein was produced from HEK293T cells transfected with ITPKA cDNA clone (Cat# [RC205323]) using MegaTran 2.0 (Cat# [TT210002]).