

## Recombinant Human PI4KA

**Cat. No.** PI4KA-30331TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human Phosphatidylinositol 4 kinase III alpha protein, Isoform 2 with N-terminal proprietary tag. Predicted MW 37.73kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	110 amino acids
<b>Description</b>	This gene encodes a phosphatidylinositol (PI) 4-kinase which catalyzes the first committed step in the biosynthesis of phosphatidylinositol 4,5-bisphosphate. The mammalian PI 4-kinases have been classified into two types, II and III, based on their molecular mass, and modulation by detergent and adenosine. The protein encoded by this gene is a type III enzyme that is not inhibited by adenosine. Two transcript variants encoding different isoforms have been described for this gene.
<b>Molecular Weight</b>	37.730kDa
<b>Tissue specificity</b>	Expressed ubiquitously. Highest levels in placenta and brain. Little or no expression in lung, liver, pancreas, testis or leukocytes.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification

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<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	VPEAIKFLVTWHTIDADAPELSHVLCWAPTDPPTGLSYFS SMYPPHPLTAQYGVKVL RSFPPDAILFYIPQIVQALRYDK MGYVREYILWAASKSQLLAHQFIWNMKTNI
<b>Sequence Similarities</b>	Belongs to the PI3/PI4-kinase family. Type III PI4K subfamily. Contains 1 PI3K/PI4K domain.

## GENE INFORMATION

<b>Gene Name</b>	PI4KA phosphatidylinositol 4-kinase, catalytic, alpha [ Homo sapiens ]
<b>Official Symbol</b>	PI4KA
<b>Synonyms</b>	PI4KA; phosphatidylinositol 4-kinase, catalytic, alpha; PIK4CA; phosphatidylinositol 4-kinase alpha; PI4K ALPHA; pi4K230;
<b>Gene ID</b>	5297
<b>mRNA Refseq</b>	NM_002650
<b>Protein Refseq</b>	NP_002641
<b>MIM</b>	600286
<b>Uniprot ID</b>	P42356
<b>Chromosome Location</b>	22q11.21

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**Pathway**

3-phosphoinositide biosynthesis, conserved biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, PI=>

**Function**

1-phosphatidylinositol 4-kinase activity; ATP binding; kinase activity; nucleotide binding; protein binding;

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