

Recombinant Human PI4KA

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

SPECIFICATION

Product Overview	Recombinant fragment of Human Phosphatidylinositol 4 kinase III alpha protein, Isoform 2 with N-terminal proprietary tag. Predicted MW 37.73kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	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.
Molecular Weight	37.730kDa
Tissue specificity	Expressed ubiquitously. Highest levels in placenta and brain. Little or no expression in lung, liver, pancreas, testis or leukocytes.
Form	Liquid
Purity	Proprietary Purification

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

GENE INFORMATION

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