Active Recombinant Human PI4KA protein, GST-tagged

Cat. No. PI4KA-161H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PI4KA fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	PI4KA 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 PI4KA gene is a type III enzyme that is not inhibited by adenosine. PI4KA is highly expressed in placenta and brain. PI4KA is associated with the membranes of Golgi vesicles and vacuoles.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	70 nmol/min/mg
Molecular Mass	~120 kDa
Purity	>70%
Applications	Kinase Assay

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Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.05μg/μl

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; PI4-kinase alpha; ptdIns-4-kinase alpha; phosphatidylinositol 4-kinase 230; phosphatidylinositol 4-kinase, type III, alpha; PI4K-ALPHA; FLJ16556;
Gene ID	5297
mRNA Refseq	NM_002650
Protein Refseq	NP_002641
MIM	600286
UniProt ID	P42356
Chromosome Location	22q11.21

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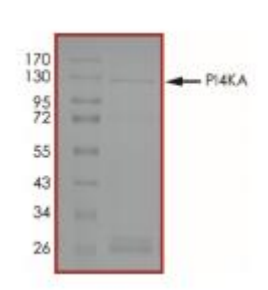
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, PI=>
Function	1-phosphatidylinositol 4-kinase activity; ATP binding; nucleotide binding; phosphatidylinositol 3-kinase activity; protein binding;
	

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