

Active Recombinant Human PIP4K2B protein, GST-tagged

Cat. No. PIP4K2B-168H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIP4K2B fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	PIP4K2B (phosphatidylinositol-5-phosphate 4-kinase, type II, beta) catalyzes the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. PIP4K2B is a member of the phosphatidylinositol-5-phosphate 4-kinase family. PIP5K2B interacts specifically with the juxtamembrane region of the p55 TNF receptor and that PIP5K2B activity is increased in mammalian cells by treatment with TNF-alpha. PIP5P4KB plays a role in determining insulin sensitivity and adiposity.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	5250 nmol/min/mg
Molecular Mass	73 kDa
Purity	>95%
Applications	Kinase Assay

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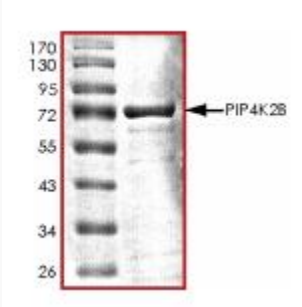
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Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	PIP4K2B phosphatidylinositol-5-phosphate 4-kinase, type II, beta [Homo sapiens]
Official Symbol	PIP4K2B
Synonyms	PIP4K2B; phosphatidylinositol-5-phosphate 4-kinase, type II, beta; phosphatidylinositol 4 phosphate 5 kinase, type II, beta , PIP5K2B; phosphatidylinositol-5-phosphate 4-kinase type-2 beta; PIP5KIIB; PIP5KIIBeta; PIP4KII-beta; PTDINS(4)P-5-kinase; PI(5)P 4-kinase type II beta; diphosphoinositide kinase 2-beta; ptdIns(5)P-4-kinase isoform 2-beta; 1-phosphatidylinositol-4-phosphate kinase; 1-phosphatidylinositol-5-phosphate 4-kinase 2-beta; phosphatidylinositol-4-phosphate 5-kinase, type II, beta; PI5P4KB; PIP5K2B;
Gene ID	8396
mRNA Refseq	NM_003559
Protein Refseq	NP_003550
MIM	603261
UniProt ID	P78356

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Chromosome Location	17q21.2
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Phosphatidylinositol signaling system, organism-specific biosystem; Phosphatidylinositol signaling system, conserved biosystem;
Function	1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding; nucleotide binding; receptor signaling protein activity; transferase activity;
	

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