

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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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	0.1µg/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;
	