

Active Recombinant Human PIKFYVE protein, GST-tagged

Cat. No. PIKFYVE-173H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIKFYVE fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1400-end
Description	PIP5K3 (also known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) encodes an enzyme that phosphorylates the D-5 position in PtdIns and phosphatidylinositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns (3,5)biphosphate. PIP5K3 belongs to a large family of lipid kinases that alter the phosphorylation status of intracellular phosphatidylinositol but also have protein kinase activity. PIP5K3 regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. The inhibition of PIP5K3 renders the late endosome /lysosome compartment refractory to fusion with autophagosomes and multivesicular bodies.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	110 nmol/min/mg
Molecular Mass	110 kDa

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Purity	>85%
Applications	Kinase Assay
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	PIKFYVE phosphoinositide kinase, FYVE-type zinc finger containing [Homo sapiens]
Official Symbol	PIKFYVE
Synonyms	CFD; FAB1; HEL37; PIP5K; PIP5K3; ZFYVE29; PIPkin-III; epididymis luminal protein 37; phosphatidylinositol 3-phosphate 5-kinase type III; phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III; phosphoinositide kinase, FYVE finger containing; type III PIP kinase; zinc finger, FYVE domain containing 29
Gene ID	200576
mRNA Refseq	NM_015040
Protein Refseq	NP_055855
MIM	609414

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UniProt ID	Q9Y2I7
Chromosome Location	2q34
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; PI Metabolism, organism-specific biosystem; Synthesis of PIPs at the Golgi membrane, organism-specific biosystem
Function	1-phosphatidylinositol-3-phosphate 5-kinase activity; NOT protein binding involved in protein folding; NOT unfolded protein binding
	