Active Recombinant Human PIK3C3 protein, GST-tagged

Cat. No. PIK3C3-166H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIK3C3 fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	PIK3C3 or phosphoinositide-3-kinase is a member of the PI 3-kinase family that mediates the active diversion of proteins from the secretory pathway to vacuoles. PIK3C3 are involved in both receptor-mediated signal transduction and intracellular trafficking. In yeast, the vps34 gene product is a PI 3-kinase. PIK3C3 has a substrate specificity and ion requirements that are distinct from the other known mammalian PI 3-kinases. PIK3C3 mediate catalysis on membranes and suppress futile adenosine triphosphatase cycles. PIK3C3 appears to alternate between a closed cytosolic form and an open form on the membrane.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	450 nmol/min/mg
Molecular Mass	128 kDa
Purity	>85%

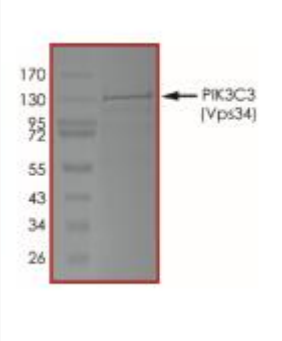
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Applications	Kinase Assay
Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	PIK3C3 phosphoinositide-3-kinase, class 3 [Homo sapiens]
Official Symbol	PIK3C3
Synonyms	PIK3C3; phosphoinositide-3-kinase, class 3; phosphatidylinositol 3-kinase catalytic subunit type 3; Vps34; PI3K type 3; PI3-kinase type 3; PtdIns-3-kinase type 3; phosphatidylinositol 3-kinase p100 subunit; VPS34; hVps34; MGC61518;
Gene ID	5289
mRNA Refseq	NM_002647
Protein Refseq	NP_002638
MIM	602609
UniProt ID	Q8NEB9
Chromosome	18q12.3

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Location	
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem;
Function	1-phosphatidylinositol-3-kinase activity; ATP binding; nucleotide binding; protein binding; protein kinase activity;
	

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