

## Active Recombinant Human PIK3C3 protein, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PIK3C3 fused with an N-terminal GST tag was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>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.</p>
<b>Form</b>	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	450 nmol/min/mg
<b>Molecular Mass</b>	128 kDa
<b>Purity</b>	>85%

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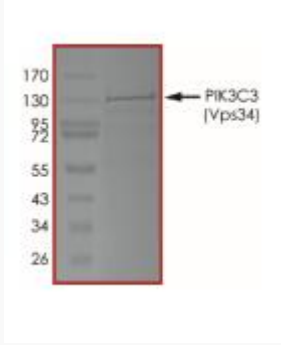
 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Applications</b>	Kinase Assay
<b>Stability</b>	1 year at -70 centigrade from the date of shipment
<b>Storage</b>	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.
<b>Concentration</b>	0.1 µg/µl
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PIK3C3 phosphoinositide-3-kinase, class 3 [ Homo sapiens ]
<b>Official Symbol</b>	PIK3C3
<b>Synonyms</b>	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;
<b>Gene ID</b>	5289
<b>mRNA Refseq</b>	NM_002647
<b>Protein Refseq</b>	NP_002638
<b>MIM</b>	602609
<b>UniProt ID</b>	Q8NEB9
<b>Chromosome</b>	18q12.3

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<b>Location</b>	
<b>Pathway</b>	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;
<b>Function</b>	1-phosphatidylinositol-3-kinase activity; ATP binding; nucleotide binding; protein binding; protein kinase activity;
	

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