Active Recombinant Human PIK3C3, GST-tagged

Cat. No. PIK3C3-1454H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PIK3C3 (Vps34) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
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	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	98 nmol/min/mg
Molecular Mass	~128 kDa

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Purity	>70%
Applications	Kinase Assay, Western Blot
Storage	Store at–70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid 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 Location	18q12.3

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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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