

Active Recombinant Human PIK3C2G protein, GST-tagged

Cat. No. PIK3C2G-165H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIK3C2G(468-1203 aa) fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	468-1203 a.a.
Description	PIK3C2G belongs to the phosphoinositide 3-kinase (PI3K) family which plays main roles in signaling pathways and involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. PIK3C2G contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases that act as calcium-dependent phospholipid binding motifs which mediate translocation of proteins to membranes, and may also mediate protein-protein interactions and the N-terminal region of PIK3C2G and the C-terminal C2 domain are required for enzymatic activity.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	4400 nmol/min/mg
Molecular Mass	110 kDa

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Purity	>80%
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	PIK3C2G phosphoinositide-3-kinase, class 2, gamma polypeptide [Homo sapiens]
Official Symbol	PIK3C2G
Synonyms	PIK3C2G; phosphoinositide-3-kinase, class 2, gamma polypeptide; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit gamma; PI3K-C2-gamma; PTDINS-3-kinase C2 gamma; ptdIns-3-kinase C2 subunit gamma; phosphoinositide 3-kinase-C2-gamma; phosphatidylinositol 3-kinase C2 domain-containing gamma; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing gamma polypeptide; PI3K-C2GAMMA; MGC163149;
Gene ID	5288
mRNA Refseq	NM_004570
Protein Refseq	NP_004561

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MIM	609001
UniProt ID	O75747
Chromosome Location	12p12
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Insulin Signaling, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Phosphatidylinositol signaling system, organism-specific biosystem;
Function	1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; binding; nucleotide binding; phosphatidylinositol binding; phosphatidylinositol phosphate kinase activity;
	