

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	<p>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.</p> <p>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.</p>
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	0.1 µg/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;
	