

## Active Recombinant Human PI3 kinase (p110 $\alpha$ /p85 $\alpha$ ) protein, GST-tagged

**Cat. No.** PIK3CA-1894H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PI3 kinase (p110 $\alpha$ /p85 $\alpha$ ) fused with N-terminal GST-tag(p110 $\alpha$ ), no tag on p85 $\alpha$ , was co-expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Form</b>	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 16 mM glutathione, 20% glycerol, and 3 mM DTT.
<b>Bio-activity</b>	880 pmol/min/ $\mu$ g
<b>Molecular Mass</b>	235 kDa (complex); p110 $\alpha$ MW=151 kDa, p85 $\alpha$ MW=84 kDa.
<b>Unit Definition</b>	A unit of p110 $\alpha$ /p85 $\alpha$ kinase activity is defined as the amount of enzyme required to produce 1 pmol of Phosphoinositol-3, 4,5-Trisphosphate/min at 37 centigrade.
<b>Applications</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
<b>Storage</b>	>6 months at –80 centigrade. Avoid freeze/thaw cycles

### GENE INFORMATION

**Gene Name**                      PIK3CA phosphoinositide-3-kinase, catalytic, alpha polypeptide [ Homo sapiens ]

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<b>Official Symbol</b>	PIK3CA
<b>Synonyms</b>	PIK3CA; phosphoinositide-3-kinase, catalytic, alpha polypeptide; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha isoform; PI3K; PI3K-alpha; PI3-kinase p110 subunit alpha; ptdIns-3-kinase subunit p110-alpha; serine/threonine protein kinase PIK3CA; phosphatidylinositol 3-kinase, catalytic, 110-KD, alpha; phosphatidylinositol 3-kinase, catalytic, alpha polypeptide; phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit, alpha isoform; p110-alpha; MGC142161; MGC142163;
<b>Gene ID</b>	5290
<b>mRNA Refseq</b>	NM_006218
<b>Protein Refseq</b>	NP_006209
<b>MIM</b>	171834
<b>UniProt ID</b>	P42336
<b>Chromosome Location</b>	3q26.3
<b>Pathway</b>	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem;

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**Function**

1-phosphatidylinositol-3-kinase activity; ATP binding; insulin receptor substrate binding; nucleotide binding; phosphatidylinositol 3-kinase activity; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; phosphotransferase activity, alcohol group as acceptor; protein binding; protein kinase activator activity; protein serine/threonine kinase activity;

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