

Active Recombinant Human PI3 kinase (p110α/p85α) protein, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human PI3 kinase (p110α/p85α) fused with N-terminal GST-tag(p110α), no tag on p85α, was co-expressed in Insect cells.
Species	Human
Source	Insect Cells
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 16 mM glutathione, 20% glycerol, and 3 mM DTT.
Bio-activity	880 pmol/min/μg
Molecular Mass	235 kDa (complex); p110α MW=151 kDa, p85α MW=84 kDa.
Unit Definition	A unit of p110α/p85α kinase activity is defined as the amount of enzyme required to produce 1 pmol of Phosphoinositol-3, 4,5-Trisphosphate/min at 37 centigrade.
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Storage	>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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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Official Symbol	PIK3CA
Synonyms	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;
Gene ID	5290
mRNA Refseq	NM_006218
Protein Refseq	NP_006209
MIM	171834
UniProt ID	P42336
Chromosome Location	3q26.3
Pathway	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;

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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