

Recombinant Human Human PIK3CA, His-tagged

Cat. No. PIK3CA-29687TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PI 3 Kinase p110alpha mutant + PI 3 kinase p85 alpha coexpressed by baculovirus in Sf9 insect cells with N terminal His tag on both proteins. Molecular weights: 111kDa and 86kDa;
Species	Human
Description	Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers.
Conjugation	HIS
Biological activity	The specific activity of PI 3 Kinase p110alpha + PI 3 kinase p85 alpha was determined to be 50 nm/min/mg as per activity assay protocol.
Form	Liquid
Storage buffer	Preservative: 150mM Imidazole Constituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 2mM DTT, 0.1mM PMSF, pH 7.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Full Length	Full L.

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GENE INFORMATION

Gene Name	PIK3CA phosphoinositide-3-kinase, catalytic, alpha polypeptide [Homo sapiens]
Official Symbol	PIK3CA
Synonyms	PIK3CA; phosphoinositide-3-kinase, catalytic, alpha polypeptide; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha isoform; PI3K;
Gene ID	5290
mRNA Refseq	NM_006218
Protein Refseq	NP_006209
MIM	171834
Uniprot ID	P42336
Chromosome Location	3q26.3
Pathway	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;
Function	1-phosphatidylinositol-3-kinase activity; ATP binding; insulin receptor substrate binding; kinase activity; nucleotide binding;

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