# Recombinant Human Human PIK3CA, His-tagged

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

## SPECIFICATION

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| **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 ImidazoleConstituents: 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

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| **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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