Recombinant Human Phosphoinositide-3-Kinase, Catalytic, Delta Polypeptide, His-tagged

Cat. No. PIK3CD-1896H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanPIK3CD (p110-delta/p85-alpha) were co-expressed using an N-terminal His Tagon both proteins.
Species	Human
Source	Sf9 Cells
Description	PIK3CD(p110-delta/p85-alpha) Active is a member of the PI3K family thatphosphorylates phosphoinositides on the 3-hydroxyl group of the inositolring. PIK3CD plays a role in oncogenic transformation, and is consistetlyexpressed at a high level in blast cells. PIK3CD can play a selective role inthe amplification of phosphatidylinositol triphosphate (PIP3) levels thatlead to neutrophil polarization, and regulates directional migration, but notrandom locomotion. PI3K signaling pathway is involved in immune responsesrelevant to the pathogenesis of rheumatoid arthritis and other inflammatorydiseases.
Form	Frozen liquid in 50mM Sodium Phosphate pH 7.0 + 300 mM NaCl + 150 mM Imidazole + 0.1 mM PMSF +0.25 mM DTT + 25% Glycerol.
Molecular Weight	p110-delta~111 kDa,p85-alpha~86 kDa
Purity	> 80% bydensitometry
Specific Activity	50 nmol/min/mg

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Storage	Store at -70°C. 1year. For optimal storage, aliquot into smaller quantities. Avoid repeated freeze-thawcycles.
OfficialSymbol	PIK3CD

GENE INFORMATION

Gene Name	PIK3CD phosphoinositide-3-kinase,catalytic, delta polypeptide [Homo sapiens]
Synonyms	PIK3CD;phosphoinositide-3-kinase, catalytic, delta polypeptide; PI3K; p110D;P110DELTA; catalytic phosphatidylinositol 3-kinase delta;phosphoinositide-3-kinase C; PI3-kinase p110 subunit delta;phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta; EC2.7.1.153; Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunitdelta isoform; PtdIns-3-kinase p110; p110delta; PI3K-delta; PI3K delta;PtdIns-3-kinase subunit delta; Phosphatidylinositol-4,5-bisphosphate 3-kinase110 kDa catalytic subunit delta; PtdIns-3-kinase subunit p110-delta
Gene ID	5293
mRNA Refseq	NM_005026
Protein Refseq	NP_005017
MIM	602839
UniProt ID	O00329
Chromosome Location	1p36.2
Pathway	3-phosphoinositidebiosynthesis; Acutemyeloid leukemia; Apoptosis; B cell receptor

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	signaling pathway; Chemokinesignaling pathway; Chronic myeloid leukemia; Colorectal cancer; Endometrialcancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Focaladhesion; Glioma; Inositol phosphate metabolism; Insulin signaling pathway;Jak-STAT signaling pathway; Leukocyte transendothelial migration
Function	1-phosphatidylinositol-3-kinaseactivity; ATP binding; binding; kinase activity; nucleotide binding;phosphatidylinositol-4,5-bisphosphate 3-kinase activity; phosphotransferaseactivity, alcohol group as acceptor; transferase activity

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