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

Cat. No. PIK3CG-1080H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PIK3CG (p120 gamma) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-1102 aa
Description	PIK3CG (p120γ) is a member of the PIK3CG family that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. PIK3CG (p120γ) is an important modulator of extracellular signals, including those elicited by E-cadherin-mediated cell-cell adhesion, which plays an important role in maintenance of the structural and functional integrity of epithelia. In addition to its role in promoting assembly of adherens junctions, PIK3CG (p120γ) is thought to play a pivotal role in the regulation of cytotoxicity in NK cells.
Applications	Kinase Assay; Western Blot
Molecular Weight	121kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150

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	mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.
Specific Activity	52 nmol/min/mg
Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	3-phosphoinositide biosynthesis; Acute myeloid leukemia; Aldosterone-regulated sodium reabsorption; Alpha6-Beta4 Integrin Signaling Pathway; Amoebiasis; Apoptosis; B Cell Receptor Signaling Pathway; Carbohydrate digestion and absorption; Chemokine signaling pathway; Colorectal cancer; ErbB signaling pathway; Focal Adhesion; G-protein beta:gamma signalling; Glioma; IL-2 Signaling Pathway; Insulin signaling pathway

GENE INFORMATION

Gene Name	PIK3CG phosphoinositide-3-kinase, catalytic, gamma polypeptide [Homo sapiens]
Official Symbol	PIK3CG
Synonyms	PIK3CG; phosphoinositide-3-kinase, catalytic, gamma polypeptide; PI3K; PIK3; PI3CG; PI3Kgamma; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma isoform; p120-PI3K; PI3K-gamma; p110-gamma; OTTHUMP00000212313; OTTHUMP00000212314; OTTHUMP00000212315; PI3-kinase subunit gamma;

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	ptdIns-3-kinase subunit gamma; 1-phosphatidylinositol 3-kinase; ptdIns-3-kinase subunit p110-gamma; phosphatidylinositol 3 kinase gamma, p110 gamma; phosphoinositide-3-kinase gamma catalytic subunit; phosphatidylinositol 3-kinase catalytic 110-kD gamma; phosphatidylinositol 3-kinase, catalytic, gamma polypeptide; phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunit gamma
Gene ID	5294
mRNA Refseq	NM_002649
Protein Refseq	NP_002640
MIM	601232
UniProt ID	P48736
Chromosome Location	7q22
Function	1-phosphatidylinositol-3-kinase activity; ATP binding; ephrin receptor binding; inositol or phosphatidylinositol kinase activity; nucleotide binding; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; phosphotransferase activity, alcohol group as acceptor
PDB rendering based on 17eu.	

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