Recombinant Human PIK3CG

Cat. No. PIK3CG-29586TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PI 3 Kinase catalytic subunit gamma expressed in Sf9 insect cells with N terminal proprietary tag; amino acids 1-1102, 126.3 kDa.
Species	Human
ProteinLength	1-1102 a.a.
Description	This gene encodes a protein that belongs to the pi3/pi4-kinase family of proteins. The gene product is an enzyme that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. It 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, the protein is thought to play a pivotal role in the regulation of cytotoxicity in NK cells. The gene is located in a commonly deleted segment of chromosome 7 previously identified in myeloid leukemias.
Tissue specificity	Pancreas, skeletal muscle, liver and heart.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50% Glycerol, 50mM Sodium chloride, 25mM Tris HCl, 0.5mM Magnesium chloride, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the PI3/PI4-kinase family.Contains 1 PI3K/PI4K domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	PIK3CG phosphoinositide-3-kinase, catalytic, gamma polypeptide [Homo sapiens]
Official Symbol	PIK3CG
Synonyms	PIK3CG; phosphoinositide-3-kinase, catalytic, gamma polypeptide; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma isoform;
Gene ID	5294
mRNA Refseq	NM_002649
Protein Refseq	NP_002640
MIM	601232
Uniprot ID	P48736
Chromosome Location	7q22
Pathway	3-phosphoinositide biosynthesis, conserved biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem;

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	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem;
Function	1-phosphatidylinositol-3-kinase activity; ATP binding; ephrin receptor binding; kinase activity; nucleotide binding;

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