Recombinant Human Human PIK3CG, His-tagged

Cat. No. PIK3R5-31760TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human recombinant Full Length proteins: PI 3 Kinase catalytic subunit gamma and PIK3R5.The PI 3 Kinase catalytic subunit gamma carries a N-terminal X6His Tag, whereas the PIK3R5 adaptor subunit carries a N-terminal enzyme tag.The molecular weight for PI 3
Species	Human
Description	Phosphatidylinositol 3-kinases (PI3Ks) phosphorylate the inositol ring of phosphatidylinositol at the 3-prime position, and play important roles in cell growth, proliferation, differentiation, motility, survival and intracellular trafficking. The PI3Ks are divided into three classes: I, II and III, and only the class I PI3Ks are involved in oncogenesis. This gene encodes the 101 kD regulatory subunit of the class I PI3K gamma complex, which is a dimeric enzyme, consisting of a 110 kD catalytic subunit gamma and a regulatory subunit of either 55, 87 or 101 kD. This protein recruits the catalytic subunit from the cytosol to the plasma membrane through high-affinity interaction with G-beta-gamma proteins. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found.
Conjugation	HIS
Biological activity	Activity: ~ 3 nmol/mg/min using phosphatidylinositol as the substrate.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: NoneConstituents: 50% Glycerol, 25mM Sodium chloride, 25mM HEPES, 2.5mM Magnesium chloride, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	PIK3R5 phosphoinositide-3-kinase, regulatory subunit 5 [Homo sapiens]
Official Symbol	PIK3R5
Synonyms	PIK3R5; phosphoinositide-3-kinase, regulatory subunit 5; phosphoinositide 3-kinase regulatory subunit 5; p101; P101 PI3K;
Gene ID	23533
mRNA Refseq	NM_001251852
Protein Refseq	NP_001238781
MIM	611317
Uniprot ID	Q8WYR1
Chromosome Location	17p13.1
Pathway	3-phosphoinositide biosynthesis, conserved biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem;

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	Aldosterone-regulated sodium reabsorption, conserved biosystem;
Function	1-phosphatidylinositol-3-kinase regulator activity; phosphatidylinositol-4,5-bisphosphate 3-kinase activity;

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