Active Recombinant Human PIK3R1/PIK3CD protein, His-tagged

Cat. No. PIK3R1&PIK3CD-157H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human p110 delta and human p85 alpha were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tag on both proteins.
Species	Human
Source	Insect Cells
Description	PI3K (p110 delta/p85 alpha) is a member of the PI3K family that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. PI3K (p110 delta/p85 alpha) plays a role in oncogenic transformation, and is consistently expressed at a high level in blast cells from AML. PI3K (p110 delta/p85 alpha) can play a selective role in the amplification of phosphatidylinositol (3,4,5) trisphosphate (PIP3) levels that lead to neutrophil polarization, and regulates directional migration, but not random locomotion. PI3K (p110 delta/p85 alpha) signaling pathway is involved in immune responses relevant to the pathogenesis of rheumatoid arthritis and other inflammatory diseases.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Bio-activity	2200 nmol/min/mg
Molecular Mass	p110 delta~111 kDa and p85 alpha~86 kDa

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>90%
Applications	Kinase Assay
Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at –70 centigrade. 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.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	PIK3R1 phosphoinositide-3-kinase, regulatory subunit 1 (alpha) [Homo sapiens]
Official Symbol	PIK3R1
Synonyms	PIK3R1; phosphoinositide-3-kinase, regulatory subunit 1 (alpha); phosphatidylinositol 3-kinase regulatory subunit alpha; GRB1; p85; p85 ALPHA; PI3-kinase subunit p85-alpha; PI3K regulatory subunit alpha; ptdIns-3-kinase regulatory subunit alpha; phosphatidylinositol 3-kinase-associated p-85 alpha; phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha); p85-ALPHA;
Gene ID	5295
mRNA Refseq	NM_181523
Protein Refseq	NP_852664

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MIM	171833
UniProt ID	P27986
Chromosome Location	5q13.1
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 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; Aldosterone-regulated sodium reabsorption, conserved biosystem;
Function	1-phosphatidylinositol binding; ErbB-3 class receptor binding; insulin binding; insulin receptor binding; insulin receptor substrate binding; insulin-like growth factor receptor binding; neurotrophin TRKA receptor binding; phosphatidylinositol 3-kinase regulator activity; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; protein binding; protein phosphatase binding;

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