

PI3K (p85 alpha) recombinant protein

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CATALOG # AAA72905	HOST Sf9 insect cells	APPLICATIONS Western Blot
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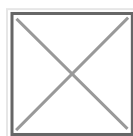
PRODUCT SYNONYMS

PI3K (p85 alpha); PI3K (p85 alpha) recombinant protein; PI3K catalytic Domain alpha; PIK3R1; GRB1; p85-ALPHA; PI3K (p85alpha) Protein; PI3K (p85a) Protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>95%
Form/Format	Recombinant protein stored in 50mM Sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1mM PMSF, 0.25 mM DTT, 25% Glycerol.
Concentration	0.2 ug/uL (varies by lot)
Applicable Applications for PI3K (p85 alpha) recombinant protein	WB (Western Blot), Kinase Assay
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. 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. Ships with dry ice.

IMAGES



SDS-PAGE

The purity of p85alpha was determined to be 95% by densitometry. Approx. MW 86 kDa

ADDITIONAL INFORMATION

Related Product Information for PI3K (p85 alpha) recombinant protein	Recombinant full-length human PI3K (p85alpha) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. The gene accession number is (NM_181523). Scientific Background: The PI3K comprises of a 110 kDa catalytic subunit and a 85 kDa regulatory subunit. A number of isoforms of the 110 kDa catalytic subunit and the 85 kDa regulatory subunit exist in cells. p85alpha modulates the interaction between PI3K and platelet-derived growth factor receptor (1). Furthermore, estrogen receptor isoform ER-alpha binds in a ligand-dependent manner to the p85-alpha regulatory subunit of PI3K. Stimulation with estrogen increases ER-alpha-associated PI3K activity, leading to the activation of protein kinase B/AKT and endothelial nitric oxide synthase (eNOS) (2).
Product Categories/Family for PI3K (p85 alpha) recombinant protein	Cellular Proteins; Signaling Proteins - Cellular Proteins

References	1. Skolnik, E. Y. Et al: Cloning of PI3-kinase associated p85 utilizing a novel method for expression/cloning of target proteins for receptor tyrosine kinases. Cell 65: 83-90, 1991. 2. Simoncini, T. et al: Interaction of oestrogen receptor with the regulatory subunit of phosphatidylinositol-3-OH kinase. Nature 407: 538-541, 2000.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	335057530
NCBI GeneID	5295
NCBI Accession #	NP_852664.1
NCBI GenBank Nucleotide #	NM_181523
UniProt Accession #	P27986; Q15747; Q4VBZ7; Q53EM6; Q8IXA2; Q8N1C5; B3KT19; D3DWA0; E7EX19
NCBI Official Full Name	Homo sapiens phosphoinositide-3-kinase, regulatory subunit 1 (alpha) (PIK3R1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
NCBI Official Symbol	PIK3R1
NCBI Official Synonym Symbols	p85; AGM7; GRB1; p85-ALPHA
NCBI Protein Information	phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha; PI3K regulatory subunit alpha; ptdIns-3-kinase regulatory subunit alpha; phosphoinositide-3-kinase regulatory subunit; phosphatidylinositol 3-kinase-associated p-85 alpha; phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)
UniProt Protein Name	Phosphatidylinositol 3-kinase regulatory subunit alpha
UniProt Gene Name	PIK3R1
UniProt Synonym Gene Names	GRB1; PI3-kinase regulatory subunit alpha; PI3K regulatory subunit alpha; PtdIns-3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha
UniProt Entry Name	P85A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pik3r1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/72905>