

PI3K recombinant protein

PI3K (p110 beta/p85 beta), Active

CATALOG # AAA73062	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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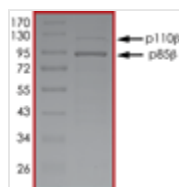
PRODUCT SYNONYMS

PI3K; PI3K (p110 beta/p85 beta); Active; PI3K recombinant protein

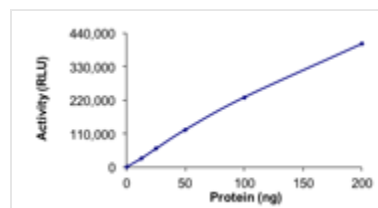
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Sequence Positions	Full length
Sequence Length	5931
Applicable Applications for PI3K recombinant protein	Kinase Assay
Species	Human
Tag	HIS tag
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 degree 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.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PI3K recombinant protein	Description: Recombinant full-length human p110 beta and human p85 beta were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tag on both proteins. Scientific Background: PI3K phosphorylate the 3-prime OH position of the inositol ring of inositol lipids which functions in signaling pathways that regulate cell growth by virtue of their activation in response to various mitogenic stimuli. PI3Ks are composed of a 110-kDa catalytic subunit and an 85-kDa adaptor subunit (1). PI3K plays a critical role in regulating the formation and stability of alpha-2B-beta-3 integrin adhesion bonds, which are necessary for shear force-induced platelet activation. PI3K sustains alpha-2B-beta-3 integrin activation and stabilized platelet aggregation by regulating both integrin-dependent calcium flux and Gi activation of RAP1B (2).
Product Categories/Family for PI3K recombinant protein	Enzymes; Active Lipid Kinases

References	1. Hu, P.et.al: Cloning of a novel, ubiquitously expressed human phosphatidylinositol 3-kinase and identification of its binding site on p85. Molec. Cell. Biol. 13: 7677-7688, 1993. 2. Jackson, S. P.et.al: PI 3-kinase p110-beta: a new target for antithrombotic therapy. Nature Med. 11: 507-514, 2005.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	365777409
NCBI GeneID	5291
NCBI Accession #	NM_006219.2
NCBI GenBank Nucleotide #	NM_006219
UniProt Accession #	P42338; Q24JU2; D3DNF0
Molecular Weight	~111 kDa; ~88 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta (PIK3CB), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
NCBI Official Symbol	PIK3CB
NCBI Official Synonym Symbols	PI3K; PIK3C1; P110BETA; PI3KBETA
NCBI Protein Information	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform
UniProt Protein Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform
UniProt Gene Name	PIK3CB
UniProt Synonym Gene Names	PIK3C1; PI3-kinase subunit beta; PI3K-beta; PI3Kbeta; PtdIns-3-kinase subunit beta; PtdIns-3-kinase subunit p110-beta; p110beta

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.