

PI3K recombinant protein

PI3K (p120 gamma), Active

CATALOG # AAA73064	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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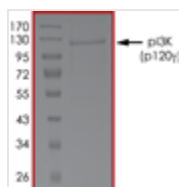
PRODUCT SYNONYMS

PI3K; PI3K (p120 gamma); Active; PI3K recombinant protein

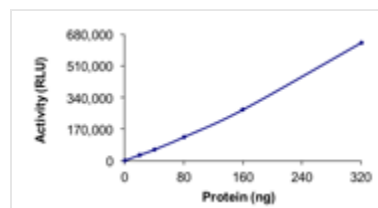
PRODUCT SPECIFICATIONS

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	7218
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 PI3K (p120 gamma) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. Scientific Background: PI3K (p120 gamma) is a member of the PI3K family that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. PI3K (p120 gamma) 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, PI3K (p120 gamma) is thought to play a pivotal role in the regulation of cytotoxicity in NK cells (1). In addition, PI3K (p120 gamma) plays an inhibitory role in inflammatory mediator-induced human vascular smooth muscle cell calcification through regulating alkaline phosphatase expression (2).
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Product Categories/Family for PI3K recombinant protein	Enzymes; Active Lipid Kinases
References	1. Jiang, K. et al: Pivotal role of phosphoinositide-3 kinase in regulation of cytotoxicity in natural killer cells. Nature Immun. 1: 419-425, 2000. 2. Patrucco, E.et al: PI3K-gamma modulates the cardiac response to chronic pressure overload by distinct kinase-dependent and -independent effects. Cell 118: 375-387, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	539846528
NCBI GeneID	5294
NCBI Accession #	NM_002649.3
NCBI GenBank Nucleotide #	NM_002649
UniProt Accession #	P48736; Q8IV23; Q9BZC8; A4D0Q6
Molecular Weight	121 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma (PIK3CG), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
NCBI Official Symbol	PIK3CG
NCBI Official Synonym Symbols	PI3K; PIK3; PI3CG; PI3Kgamma; p110gamma; p120-PI3K
NCBI Protein Information	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform
UniProt Protein Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform
UniProt Gene Name	PIK3CG
UniProt Synonym Gene Names	PI3-kinase subunit gamma; PI3K-gamma; PI3Kgamma; PtdIns-3-kinase subunit gamma; PtdIns-3-kinase subunit p110-gamma; p110gamma

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.