

## PI3K recombinant protein

PI3K (p110 beta/p85 alpha), Active

|                              |                                                   |                                     |
|------------------------------|---------------------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73063</b> | HOST<br><b>Sf9 insect cells using baculovirus</b> | APPLICATIONS<br><b>Kinase Assay</b> |
|------------------------------|---------------------------------------------------|-------------------------------------|

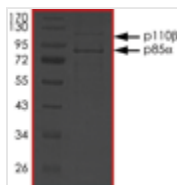
### PRODUCT SYNONYMS

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

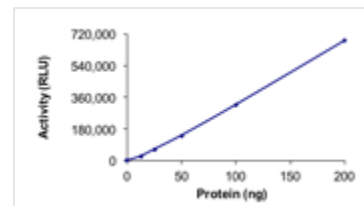
### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                      |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature.<br>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 | <p>Description: Recombinant full-length human p110 beta and human p85 alpha were co-expressed by baculovirus in Sf9 insect cells using an N-terminal His tag on both proteins.</p> <p>Scientific Background: The PI3K comprises of a 110 kDa catalytic subunit and an 85 kDa regulatory subunit. A number of isoforms of the 110 kDa catalytic subunit and the 85 kDa regulatory subunit exist in cells. The p110 beta catalytic subunit (PIK3CB) plays a role in regulating the formation and stability of alpha-2B-beta-3 integrin adhesion bonds, which are necessary for shear force-induced platelet activation (1). In animal model of prostate tumor formation induced by the tumor suppressor PTEN loss, ablation of p110 beta impedes tumorigenesis with a concomitant diminution of AKT phosphorylation (2).</p> |
| Product Categories/Family for PI3K recombinant protein   | Enzymes; Active Lipid Kinases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|            |                                                                                                                                                                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | 1. Jackson, S. P. et al: PI 3-kinase p110-beta: a new target for antithrombotic therapy. Nature Med. 11: 507-514, 2005. 2. Jia, S.et al: Essential roles of PI (3)K-p110-beta in cell growth, metabolism and tumorigenesis. Nature 454: 776-779, 2008. |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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; ~86 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                | <b>PIK3CB</b>                                                                                                                   |
| 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
 Online datasheet: <https://www.aaabiotech.com/pik3cb-recombinant-protein-sf9-kinase-assay/73063>