

## Recombinant Bovine Phosphoinositide-3-Kinase, Catalytic, Alpha Polypeptide, GST-tagged

**Cat. No.** PIK3CA-1864B    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Bovine PIK3CA was expressed in Sf9 insect cells with a GST-tag.                                                                                                                                                                                                                                                                       |
| <b>Species</b>             | Bovine                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>              | Sf9 Cells                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>         | The PIK3CA and regulatory subunits are co-expressed in Sf9 insect cells. The catalytic subunit carries a GST-Tag and the heterodimer was purified by affinity chromatography. The GST-Tag facilitates the protein's application in typical GST pulldown assays. The MW of p110 alpha is 124.3 kDa (without Tag). The MW of p85 alpha is 83.5 kDa. |
| <b>Form</b>                | Liquid supplied in 25 mM Tris, pH 8.0 + 50 mM NaCl + 0.5 mM MgCl <sub>2</sub> + 50% glycerol.                                                                                                                                                                                                                                                     |
| <b>Concentration</b>       | 0.5 mg/ml                                                                                                                                                                                                                                                                                                                                         |
| <b>Biological Activity</b> | 3 nmol/mg/min using phosphatidylinositol as the substrate.                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>             | When stored at -20°C, this product is stable for one year. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>     | PIK3CA                                                                                                                                                                                                                                                                                                                                            |

### GENE INFORMATION

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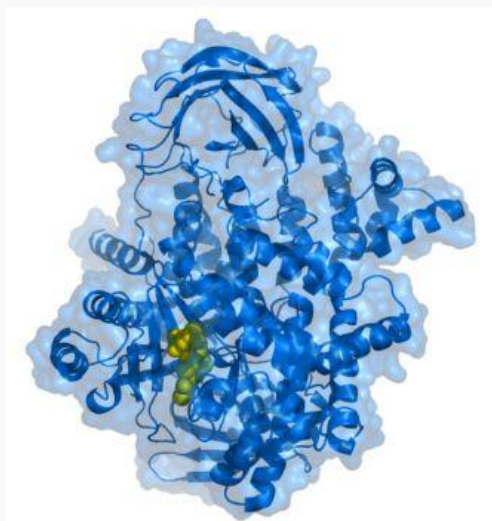
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | PIK3CA phosphoinositide-3-kinase,catalytic, alpha polypeptide [ Bos taurus ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>       | PIK3CA;phosphoinositide-3-kinase, catalytic, alpha polypeptide;phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alphaisoform; PI3K; PI3Kalpha; p110alpha; PI3K-alpha; ptdIns-3-kinase p110;PI3-kinase subunit alpha; PI3-kinase p110 subunit alpha; ptdIns-3-kinasesubunit alpha; ptdIns-3-kinase subunit p110-alpha; serine/threonine proteinkinase PIK3CA; phosphoinositide-3-kinase catalytic alpha polypeptide;phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunitalpha; EC 2.7.1.153; EC 2.7.11.1; MGC142161; MGC142163; p110-alpha |
| <b>Gene ID</b>        | 282306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>    | NM_174574                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b> | NP_776999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>     | P32871                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>        | Acute myeloidleukemia; Apoptosis; B cell receptor signaling pathway; Chemokine signalingpathway; Colorectal cancer; Endometrial cancer; Fc epsilon RI signalingpathway; Fc gamma R-mediated phagocytosis; Focal adhesion; Inositol phosphatemetabolism; Insulin signaling pathway; Jak-STAT signaling pathway; Leukocyttetransendothelial migration; Natural killer cell mediated cytotoxicity;Neurotrophin signaling pathway                                                                                                                                                 |
| <b>Function</b>       | 1-phosphatidylinositol-3-kinaseactivity; ATP binding; inositol or phosphatidylinositol kinase activity;insulin receptor substrate binding; nucleotide binding; phosphatidylinositol-4,5-bisphosphate3-kinase activity; phosphotransferase activity, alcohol group as acceptor;transferase activity; protein binding; protein kinase activator activity;protein serine/threonine kinase activity                                                                                                                                                                               |

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**PI3 Kinase 110  
alpha bound to the  
inhibitor PIK-93  
(yellow).**



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