

Product datasheet

Recombinant human PI 3 Kinase p110 alpha + PI 3 kinase p85 alpha protein ab90730

2 图像

概述

产品名称	重组人PI3 Kinase p110 alpha + PI3 kinase p85 alpha蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Baculovirus infected Sf9 cells
氨基酸序列	
种属	Human

技术指标

Our [Abpromise guarantee](#) covers the use of **ab90730** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生物活性	Activity: 9,900 units/mg 1 unit equals 1 picomole phosphate transferred to PIP2 per min. Activity test: ATP depletion assay, PI as substrate, 1 μM ATP.
应用	Functional Studies SDS-PAGE
纯度	> 90 % SDS-PAGE.
形式	Liquid

制备和贮存

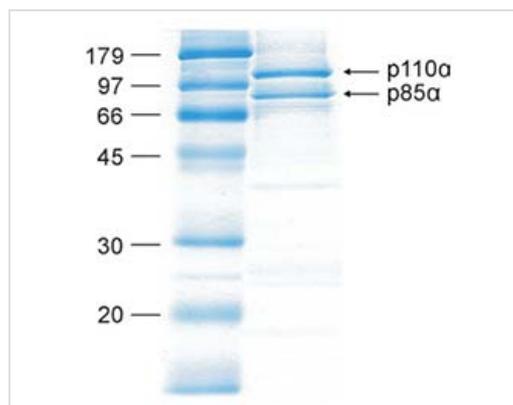
稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.90 Constituents: 0.05% Brij, 0.79% Tris HCl, 10% Glycerol, 1.74% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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常规信息

相关性

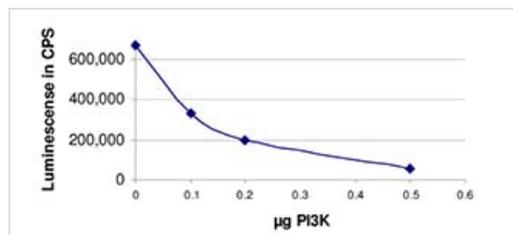
Phosphoinositide 3-kinases (PI3Ks) phosphorylate phosphatidylinositols (PIs) at their 3' OH position generating lipid second messengers and thereby regulate numerous biological processes including cell growth, differentiation, survival, proliferation, migration and metabolism. On the basis of structural similarities and substrate specificity, the PI3K family can be subdivided into three classes termed I, II, and III. All human class I members are heterodimers consisting of a catalytic subunit (MW approx. 110 kDa) and a non-catalytic subunit (MW 50, 55, 85, or 101 kDa) and are known to phosphorylate phosphatidylinositol (PI), phosphatidylinositol-4-monophosphate (PIP) and phosphatidylinositol-4,5-bisphosphate (PIP2) in vitro. The class I members can be further subdivided into class IA and IB PI3Ks. Class IA exists in three isoforms (p110alpha, p110beta and p110delta whereas the only class IB member is termed p110gamma. Class IA PI3Ks are activated by adaptor proteins such as Ras or BCAP, or tyrosine-kinase-associated receptors including antigen, co-stimulatory and cytokine receptors (e.g. CD19, CD28, Insulin receptor, EGFR, and PDGFR). p110gamma is activated by G-protein-coupled receptors (GPCRs). Effectors of class I PI3Ks are pleckstrin homology domain proteins such as Akt/PKB, BTK, TEC, ITK, BAM32, and small GTPases (e.g. Cdc42, Rac, or Ras). The action of PI3Ks is regulated by the phosphatidylinositol-3,4,5-trisphosphate phosphatases SHIP and PTEN.

图片



SDS-PAGE analysis of 3µg of ab90730

SDS-PAGE - Recombinant human PI 3 Kinase p110 alpha + PI 3 kinase p85 alpha protein (ab90730)



ATP depletion assay, PI as substrate, 1 µM
ATP

Functional Studies - Recombinant human PI 3 Kinase p110 alpha + PI 3 kinase p85 alpha protein (ab90730)

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