

PIK3CA

Recombinant Bovine Phosphoinositide 3-kinase p85 alpha regulatory subunit

Catalog No. CRP042 **Quantity:** 20 µg

Description: p85 alpha acts as regulatory subunit of the class IA PI3-kinase isoforms alpha beta and delta. It contains two SH2 domains that bind to tyrosine-phosphorylated growth factor receptors or substrate adaptor proteins.

It also contains a BH (breakpoint cluster region homology) domain that shows GAP activity towards the small GTPases Rab4, Rab5, Cdc42, Rac1 and to a lesser extent towards Rab6 and Rab11.

It was shown that PI3K-alpha catalytic subunit mediated phosphorylation of the p85-alpha adapter reduces the lipid kinase activity of the heterodimer and this gives hints for PI3K-dependent signaling events not requiring production of 3'-phosphorylated phosphoinositides.

PI3K-alpha protein kinase activity has been implicated in IRS 1 serine phosphorylation in insulin-treated adipocytes and in STAT3 and IRS 1 phosphorylation upon activation of the type 1 IFN receptor by IFN-alpha.

Gene ID: 282306

Molecular Weight: 83.5 kDa

Formulation: Liquid. Supplied in 25 mM HEPES, pH 8.0 + 25 mM NaCl + 2.5 mM MgCl₂ and 50% glycerol.

Purity: >90% by SDS-PAGE

Applications: For *in vitro* use only

Storage & Stability: Quality guaranteed for 12 months
Store at -20°C
Avoid freeze / thaw cycles

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

