

## Recombinant Human PI3K (p110δ/p85α) His Active

**Catalog No.** CRK109A                      **Quantity:** 5 µg  
 CRK109B                                      10 µg

**Description:** Recombinant Human PI3K (p110-delta/p85-alpha) Active is a member of the PI3K family that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. PI3K plays a role in oncogenic transformation, and is consistently expressed at a high level in blast cells. PI3K can play a selective role in the amplification of phosphatidylinositol triphosphate (PIP3) levels that lead to neutrophil polarization, and regulates directional migration, but not random locomotion. PI3K signaling pathway is involved in immune responses relevant to the pathogenesis of rheumatoid arthritis and other inflammatory diseases.  
 Recombinant Human PI3K (p110-delta/p85-alpha) were co-expressed using an N-terminal His Tag on both proteins.

**Concentration:** 0.1 mg/ml

**Source:** Sf9 insect cells

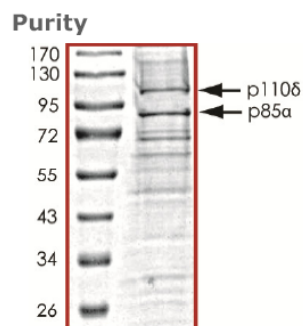
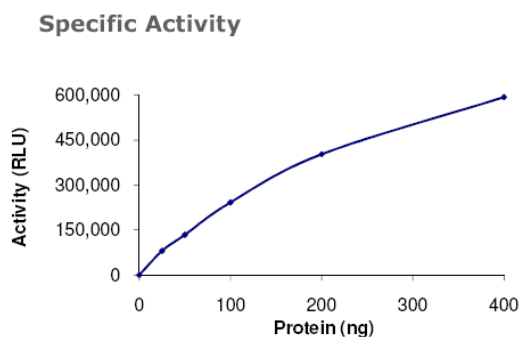
**Molecular Weight:** p110-delta ~ 111 kDa  
 p85-alpha ~ 86 kDa

**Formulation:** Frozen liquid in 50 mM Sodium Phosphate pH 7.0 + 300 mM NaCl + 150 mM Imidazole + 0.1 mM PMSF + 0.25 mM DTT + 25% Glycerol.

**Purity:** >80% by densitometry

**Specific Activity:** 50 nmol/min/mg

**Storage & Stability:** Store at -70°C. 1 year. For optimal storage, aliquot into smaller quantities. **Avoid repeated freeze-thaw cycles.**



The purity of PI3K (p110δ/p85α) was determined to be **>80%** by densitometry, p110δ approx. MW **111kDa** and p85α Approx. MW **86kDa**.

The specific activity of PI3K (p110δ/p85α) was determined to be **50 nmol/min/mg** as per activity assay protocol.

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