

## Human PIK3CD / PIK3R1 Heterodimer (active kinase) - Purified

**Catalog No.:** AR10191PU-N

**Quantity:** 5 µg

**Species:** Human

**Source:** Insect cells

**Format:** **State:** Liquid sterile filtered solution

**Purity:** > 95.0% as determined by SDS Page

**Buffer System:** 25mM Tris-HCl, pH 8.0, 50mM NaCl, 0.5mM MgCl<sub>2</sub> and 50% Glycerol

**Description:**

The class IA PI3Kd is expressed in endothelial and in white blood cells. Recently it was shown that the inactivation of PI3Kd in bone marrow mast cells (BBMCs) leads to defective stem cell factor-mediated proliferation, adhesion and migration of these cells, and to impaired allergen-IgE induced degranulation and cytokine release. In neutrophils a role for PI3Kd in TNF $\alpha$ -induced signaling was demonstrated by a reduction in Aktphosphorylation and PDK1 activity upon treatment with the d-specific inhibitor IC87114. The catalytic subunit carries a GST-Tag which facilitates the protein's application in typical GST pull-down assays and the heterodimer was purified by affinity chromatography. The Molecular Weight for p110 $\delta$  chain is 120.2 kDa (without Tag) and the p85 $\alpha$  chain 83.5 kDa.

**Biological Activity:** 3,000 U/mg.

**Unit Definition:** 1 unit is defined as 1 picomole phosphate transferred to PIP<sub>2</sub> per minute.

**Storage:**

Store the antigen undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.