

Human PIK3CD / PIK3R1 Heterodimer (active kinase) - Purified

Catalog No.: AR10191PU-S

Quantity: 1 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 MgCl₂ 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 TNFα-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 p110d chain is 120.2 kDa (without Tag) and the p85α chain 83.5 kDa.

Biological Activity: 3,000 U/mg.

Unit Definition: 1 unit is defined as 1 picomole phosphate transferred to PIP2 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.