

## PI3KgHis Human

**Description:** Recombinant full length PI3Kg (126.3 kDa without Tag) carries an N-terminal His 8 affinity Tag.

**Catalog #:** PKPS-336

**Synonyms:** Phosphoinositide 3-kinase p110g, PI3Kg.

For research use only.

**Source:** Sf9 insect cells.

**Physical Appearance:** Sterile Filtered clear solution.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

Protein solution (1mg/ml) in 25mM Tris-HCl, pH 8.0, 50mM NaCl, 0.5mM MgCl<sub>2</sub> and 50% glycerol.

**Stability:**

PI3Kg although stable at 14°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

PI3Kg is highly expressed in cells of hematopoietic origin. It plays an important role in dendritic cell (DC) trafficking and in the activation of specific immunity. PI3Kg<sup>-/-</sup> mice showed a reduced ability to respond to chemokines, and had a selective defect in the number of skin Langerhans cells and in lymph node CD8a-DCs. In macrophages, the chemokine RANTES/CCL5 activates the small GTPase Rac1 and its downstream target PAK2. This response depends on Gi activation and largely on the subsequent triggering of PI3Kg.

**Biological Activity:**

~ 4.5 nmol/mg/min using phosphatidylinositol as the substrate.

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