



Product Datasheet

Product Name	Phosphoinositide 3-kinase p110g Human Recombinant
Cata No	CB500884
Source	<i>Sf9 insect cells.</i>
Synonyms	Phosphoinositide 3-kinase p110g, PI3Kg

Description

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^{-/-} 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. Recombinant full length PI3Kg (126.3 kDa without Tag) carries an N-terminal His 8 affinity Tag.

Physical Appearance

Sterile Filtered clear solution.

Biological Activity

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

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

0.5 mg/ml solution in 25mM HEPES, pH 8.0, 25mM NaCl, 2.5mM MgCl₂, and 50% glycerol.

Stability

PI3Kg although stable at 14°C for 1 week, should be stored desiccated 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.