

PI3Ka Bovine

Description: The PI3Ka catalytic and regulatory subunits are coexpressed in Sf9 insect cells. Phosphoinositide 3-kinase alpha Bovine Recombinant is a glycosylated protein having a molecular weight as follows: p85a chain 83.5 kDa, p110 chain 124.3 kDa.

Catalog #: PKPS-334

For research use only.

Synonyms: Phosphoinositide 3-kinase alpha p110a/p85a, PI3Ka, 2.7.1.137, Phosphatidylinositol 3-kinase, 1-phosphatidylinositol 3-kinase, PI3-kinase, PtdIns-3-kinase, Type I phosphatidylinositol kinase, Type III phosphoinositide 3-kinase.

Source: Sf9 insect cells.

Physical Appearance: Sterile filtered liquid formulation.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

PI3Ka solution in 25mM HEPES, pH 8.0, 25mM NaCl, 2.5mM MgCl₂ and 50% glycerol.

Stability:

PI3Ka 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.

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:

PI3Ka plays a specific role in apoptosis in human colon cancer cells. Injection of neutralizing antibodies specific to PI3Ka into adenocarcinoma cells induced apoptosis, a response that was reverted by treating cells with caspase inhibitor. It was also shown that PI3Ka mediated phosphorylation of the p85a adapter reduces the lipid kinase activity of the heterodimer and this gives hints for PI3K-dependent signaling events not requiring production of 3-phosphorylated phosphoinositides. PI3Ka is a key regulator of the initiation of keratinocyte differentiation. A decrease in PI3Ka activity results in a loss of keratinocyte adhesion to the extracellular membrane and the initiation of early phase differentiation.

Biological Activity:

1,000 U/mg.

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