
Product Data Sheet

Product Name: PI3Ka Bovine

Cat. No.: GP22429

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9 insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Formulation	PI3Ka solution in 25mM HEPES, pH 8.0, 25mM NaCl, 2.5mM MgCl ₂ and 50% glycerol.		

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 36p-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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

The PI3Ka catalytic and regulatory subunits are coexpressed in Sf9 insect cells. Phosphoinositide 3-kinase alpha Bovine Recombinant is a glycosylated protein having a

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molecular weight as follows: p85a chain 83.5 kDa, p110 chain 124.3 kDa.

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