

PI3Kd Human

Recombinant Human Phosphoinositide 3-kinase p110d/p85a

Catalog Number: C65177
Issuance Date: 8 June 2018

Overview

Synonyms

Phosphoinositide 3-kinase p110d/p85a, PI3Kd.

Introduction

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 TNF α -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 p85a chain 83.5 kDa.

Source

Sf9 insect cells

Purity

Greater than 95.0% as determined by SDS Page.

Properties

Physical appearance

Sterile filtered liquid formulation.

Species

Human

PI3Kd solution in 25mM Tris-HCl, pH 8.0, 50mM NaCl, 0.5mM MgCl₂, and 50% glycerol.

Storage

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.