Recombinant Human PI3K/p110 delta&p85 alpha Kinase

Catalog No.: RP03359LQ

Sequence Information

Species	Gene ID
Human	5293&5295

Swiss Prot	Tags
O00329&P27986	N-His-GST (PIK3CD) & N-His (PIK3R1)

Synonyms

PI3K; PIK3CD; PK3CD; PI3-kinase subunit delta; PI3Kdelta; PtdIns-3-kinase subunit delta; p110 delta; p110d; PIK3R1; GRB1; p85a; PI3-kinase subunit p85-alpha; p85 alpha

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
148.1 kDa/85.6 kDa	100-150 kDa/70-85 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 20% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Background

Phosphoinositide 3-kinases (PI3Ks), also called phosphatidylinositol 3-kinases, are a family of enzymes involved in cellular functions such as cell growth, proliferation, differentiation, motility, survival and intracellular trafficking, which in turn are involved in cancer. PI3K comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. PIK3CD also known as phosphoinositide 3-kinase (PI3K) delta isoform or p110δ. p110δ regulates immune function. In contrast to the other class IA PI3Ks p110α and p110β, p110δ is principally expressed in leukocytes. The Pik3r1 gene locus encodes the 85 kD regulatory subunit, as well as 55 and 50 kD regulatory subunits. It used to be thought that alternative splicing of this gene resulted in three transcript variants encoding different isoforms.

Basic Information

Description

Recombinant Human PI3K/p110 delta&p85 alpha Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Pro2-Gln1044 (PIK3CD) & Ser2-Arg724 (PIK3R1)) of Human PIK3CD&PIK3R1 (Accession #O00329&P27986) fused with a N-His-GST (PIK3CD) & N-His (PIK3R1) tag.

Activity

The activity of PK3CD/p85 is based on the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70℃

Operational Notes

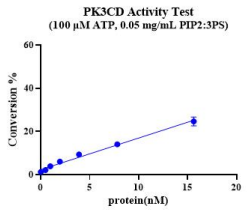
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

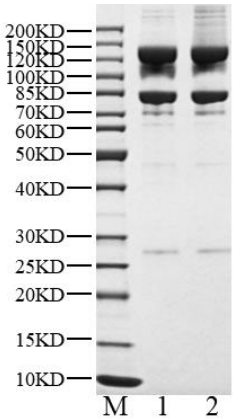
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



The activity of PK3CD/p85 is based on the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.



Recombinant Human PI3K/p110 delta&p85 alpha Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.

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