

Recombinant Human PI3K (p110 alpha/p85 alpha) (N-His tag)

Cat No:HR2R1851

For research use only

Overview

Quantity	10 ?g
Gene Symbol	PI3K (p110a/p85a)
Gene ID	N/A
Accession	NM_006218, NM_181523
Alternative Name	p110α; PIK3CA, MGC142161, MGC142163, p110-alpha p85α; PIK3R1, GRB1, p85-ALPHA
Species	Human
Source	Insect cells
Description	The PI3K comprises of a 110 kDa catalytic subunit and a 85 kDa regulatory subunit. A number of isoforms of the 110 kDa catalytic subunit and the 85 kDa regulatory subunit exist in cells. The p110a catalytic subunit (PIK3CA) is frequently mutated or amplified in a variety of cancers including ovarian and colon and this protein is one of the PI3K mutants . PIK3CA gene copy number is increased in over 30% of ovarian cancers and this leads to increased PI3-kinase activity. Furthermore, the activity of p110a is essential for vascular development and inactivation of p110a leads to severe defects in angiogenic sprouting and vascular remodeling .
Functions	The specific activity of PI3K (p110a/p85a) was determined to be 52 nmol/min/mg as per activity assay protocol.
Formulation	50mM sodium, pHosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	111
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.