

## 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   | p110&alpha;; PIK3CA, MGC142161, MGC142163, p110-alpha p85&alpha;; 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.  |