Phosphoinositide 3-kinase p110γ, human recombinant, expressed in insect cells

Catalog Number P8615
Storage Temperature –70 °C

Synonyms: Phosphatidylinositol 3-kinase p110γ, PI3K p110γ

Product Description
Phosphoinositide 3-kinase p110γ is a human recombinant phosphoinositide 3-kinase (PI3K) containing a 6× His-tag at the C-terminus, expressed in insect cells. PI3Ks catalyze the phosphorylation of phosphoinositides at the 3 position of the inositol ring. Phosphoinositide 3-kinase p110γ is the only known class I_b kinase.

PI3Ks are a ubiquitously expressed family of enzymes that, through the generation of phospholipid secondary messengers, play a major role in the regulation of many important cellular processes such as mitogenesis, apoptosis, and cytoskeletal functions.

This product is supplied in a solution containing ~1 mg/ml protein in 10 mM HEPES, pH 7.5, 100 mM NaCl, 0.5 mM MgCl₂, and 50% glycerol.

Purity: ≥95% (SDS-PAGE)
Specific activity: ~4.5 units/mg protein

One unit of phosphoinositide 3-kinase p110γ will incorporate 1.0 nmol of phosphate into phophatidyl-inositol per minute using at pH 7.4 at 37 °C.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability
The product should be stored at –70 °C. Avoid freeze-thaw cycles.

References