PI4KA Protein
Recombinant full-length protein expressed in Sf9 cells

Catalog # P31-30G
Lot # X382-6

Product Description
Recombinant full-length human PI4KA was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The PI4KA gene accession number is NM_002650.

Gene Aliases
FLJ16556; PI4K-ALPHA; pi4K230; PIK4CA

Formulation
Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

Storage and Stability
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.

Scientific Background
PI4KA encodes a phosphatidylinositol (PI) 4-kinase which catalyzes the first committed step in the biosynthesis of phosphatidylinositol 4,5-bisphosphate. The mammalian PI 4-kinases have been classified into two types, II and III, based on their molecular mass, and modulation by detergent and adenosine. The protein encoded by PI4KA gene is a type III enzyme that is not inhibited by adenosine. PI4KA is highly expressed in placenta and brain (1). PI4KA is associated with the membranes of Golgi vesicles and vacuoles (2).

References

Purity
The purity of PI4KA was determined to be >70% by densitometry, approx. MW 120kDa.

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Lot # X382-6
Purity >70%
Concentration 0.1 µg/µl
Stability 1yr at –70°C from date of shipment

Storage & Shipping
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. Product shipped on dry ice.