

PI4KB Protein, Human (Sf9, His, GST)

Cat. No.:	HY-P701742
Synonyms:	PI4KB; Phosphatidylinositol 4-kinase beta; PI4K-beta; PI4Kbeta; PtdIns 4-kinase beta; NPIK; PI4K92; PI4KIII
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9UBF8 (G2-M816)
Gene ID:	5298
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PI4KB, a pivotal enzyme, phosphorylates phosphatidylinositol (PI), initiating the crucial step in generating the second messenger inositol-1,4,5-trisphosphate (PIP). Beyond its fundamental role in inositol signaling, PI4KB is implicated in Golgi disintegration/reorganization during mitosis, possibly through its phosphorylation. Additionally, it participates in Golgi-to-plasma membrane trafficking, underscoring its significance in cellular membrane dynamics. Furthermore, PI4KB emerges as a key player in inner ear development, suggesting diverse regulatory functions beyond its role in membrane trafficking. In the context of microbial infection, PI4KB assumes a critical role in Aichi virus RNA replication, being recruited by ACBD3 at the viral replication sites. This multifaceted involvement highlights PI4KB's versatile contributions to cellular processes and viral replication mechanisms.
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Caution: Product has not been fully validated for medical applications. For research use only.

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