

PK3C3 Protein, Human (Sf9, His, GST)

Cat. No.:	HY-P701752
Synonyms:	PIK3C3; Phosphatidylinositol 3-kinase catalytic subunit type 3; PI3-kinase type 3; PI3K type 3; PtdIns-3-kinase type 3; Phosphatidylinositol 3-kinase p100 subunit; Phosphoinositide-3-kinase class 3; hVps34
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8NEB9 (G2-K887)
Gene ID:	5289
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	<p>PK3C3 serves as the catalytic subunit of the PI3K complex, orchestrating the formation of phosphatidylinositol 3-phosphate. Various complex forms of PK3C3 play pivotal roles in diverse membrane trafficking pathways, with PI3KC3-C1 initiating autophagosomes and PI3KC3-C2 contributing to the maturation of autophagosomes and endocytosis. Within PI3KC3-C1, PK3C3 actively promotes the formation of endoplasmic reticulum membrane curvature before vesicle budding. Furthermore, PK3C3 is implicated in the regulation of degradative endocytic trafficking, essential for the abscission step in cytokinesis, likely in the context of PI3KC3-C2. Additionally, PK3C3 plays a crucial role in the transport of lysosomal enzyme precursors to lysosomes and is required for the progression from early to late endosomes. Notably, the kinase activity of PK3C3 is vital for the replication of SARS coronavirus-2 (SARS-CoV-2) during microbial infection.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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