PNCK Protein, Human (Sf9, GST)

Cat. No.:	HY-P701756
Synonyms:	PNCK; Calcium/calmodulin-dependent protein kinase type 1B; CaM kinase I beta; CaM kinase IB; CaM-KI beta; CaMKI-beta; Pregnancy up-regulated non-ubiquitously-expressed CaM kinase
Species:	Human
Source:	Sf9 insect cells
Accession:	Q6P2M8-1 (L2-W343)
Gene ID:	139728
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.
Reconsititution	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	The PNCK protein is identified as a calcium/calmodulin-dependent protein kinase, suggesting its involvement in a proposed calcium-triggered signaling cascade. In vitro studies have revealed that PNCK has the ability to phosphorylate CREB1 and SYN1 (synapsin I), indicating a role in modulating cellular processes associated with synaptic function and gene expression. Moreover, PNCK phosphorylates and activates CAMK1, suggesting its participation in the regulation of other calcium/calmodulin-dependent kinases. These findings highlight PNCK's potential significance in cellular signaling pathways, particularly those related to calcium-mediated events, and underscore its role in the phosphorylation and activation of key proteins involved in synaptic function and gene regulation. Further research is needed to elucidate the specific biological contexts and physiological consequences of PNCK-mediated phosphorylation events.

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