PCTAIRE1 Protein, Human (sf9, GST)

Cat. No.:	HY-P76536
Synonyms:	Cyclin-dependent kinase 16; PCTAIRE-motif protein kinase 1; CDK16; PCTAIRE1; PCTK1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q00536 (M1-F496)
Gene ID:	5127
Molecular Weight:	Approximately 73 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 2 mM GSH, 0.5 mM PMSF.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
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	PCTAIRE1 protein, a versatile kinase, assumes a pivotal role in diverse cellular processes, particularly in vesicle-mediated transport and exocytosis. Its involvement extends to the regulation of GH1 release by brain neurons, underlining its significance in neuroendocrine functions. PCTAIRE1's reach encompasses the phosphorylation of NSF, modulating NSF oligomerization and thereby influencing crucial aspects of vesicle dynamics. Notably, it emerges as an essential player in spermatogenesis, contributing to normal reproductive processes. Additionally, PCTAIRE1 plays a key role in the intricate regulation of neuron differentiation and dendrite development, emphasizing its impact on neuronal morphology. Beyond its neuronal functions, PCTAIRE1 is implicated in the regulation of insulin secretion in response to changes in blood glucose levels, implicating its role in metabolic homeostasis. The kinase's ability to phosphorylate CCNY at 'Ser-336' in vitro further highlights its diverse molecular interactions and underscores its multifaceted role in cellular signaling.

Caution: Product has not been fully validated for medical applications. For research use only.

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