

PRKX Protein, Human (Sf9, GST)

Cat. No.:	HY-P701761
Synonyms:	PRKX; cAMP-dependent protein kinase catalytic subunit PRKX; PrKX; Protein kinase X; Protein kinase X-linked; Serine/threonine-protein kinase PRKX; Protein kinase PKX1
Species:	Human
Source:	Sf9 insect cells
Accession:	P51817 (M1-F358)
Gene ID:	5613
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	PRKX, a serine/threonine protein kinase, operates as a key mediator of cAMP signaling within cells. Its functionality is rooted in phosphorylating downstream targets, potentially including CREB, SMAD6, and PKD1, thereby orchestrating diverse roles in cellular differentiation and epithelial morphogenesis. PRKX plays a pivotal role in regulating myeloid cell differentiation through the phosphorylation of SMAD6 and contributes to nephrogenesis by stimulating the migration and tubulogenesis of renal epithelial cells. Furthermore, PRKX is actively involved in angiogenesis, exerting its influence by promoting endothelial cell proliferation, migration, and the formation of vascular-like structures. The multifaceted functions of PRKX underscore its significance in orchestrating intricate cellular processes essential for development and tissue morphogenesis.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA