Product Name: Recombinant Human PRKG1 (C-6His)
Catalog #: PHH1368

Summary

Name	PRKG1/cGMP-dependent protein kinase 1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human cGMP-Dependent Protein Kinase 1 is produced by our Mammalian expression system and the target gene encoding Gly2-Phe686 is expressed with a 6His tag at the C-terminus.
Accession #	Q13976-2
Host	Human Cells
Species	Human
Predicted Molecular Mass	78.8 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 6% Sucrose, 4% Mannitol, 0.05% Tween 80, pH8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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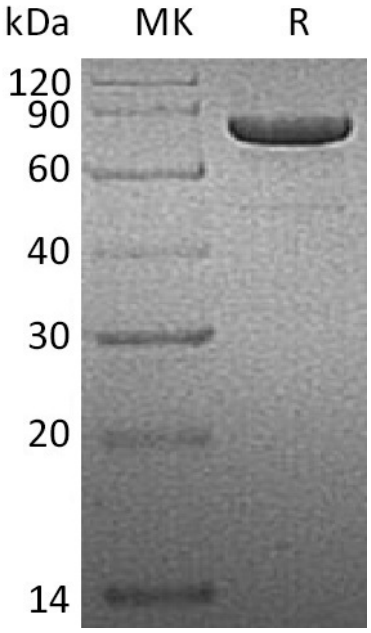

Alternative Names

cGMP-Dependent Protein Kinase 1; cGK 1; cGK1; cGMP-Dependent Protein Kinase I; cGKI; PRKG1; PRKG1B; PRKGR1A; PRKGR1B

Background

cGMP-Dependent Protein Kinase 1 (PRKG1) belongs to the protein kinase superfamily and AGC Ser/Thr protein kinase family. PRKG1 contains one AGC-kinase C-terminal domain, two cyclic nucleotide-binding domains, and one protein kinase domain. PRKG1 is mainly expressed in the lung and placenta. PRKG1 acts as a key mediator of the nitric oxide (NO)/cGMP signaling pathway. PRKG1 can phosphorylate many proteins that regulate platelet activation and adhesion, smooth muscle contraction, cardiac function, gene expression, feedback of the NO-signaling pathway, and other processes involved in several aspects of the CNS like axon guidance, hippocampal and cerebellar learning, circadian rhythm, and nociception.

Note

For Research Use Only , Not for Diagnostic Use.