



[Go to Product page](#)

## Datasheet for ABIN7318303 PRKG1 Protein (His tag)

### Overview

Quantity:	50 µg
Target:	PRKG1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRKG1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human PRKG1 Protein (His Tag)
Sequence:	Gly2-Pro686
Characteristics:	Recombinant Human cGMP-Dependent Protein Kinase 1 is produced by our Mammalian expression system and the target gene encoding Gly2-Pro686 is expressed with a 6His tag at the C-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	PRKG1
Alternative Name:	PRKG1 ( <a href="#">PRKG1 Products</a> )
Background:	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

## Target Details

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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.

Synonym: cGMP-Dependent Protein Kinase 1, cGK 1, cGK1, cGMP-Dependent Protein Kinase I, cGKI, PRKG1, PRKG1B, PRKGR1A, PRKGR1B

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Molecular Weight: 78.8 kDa

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 20 % glycerol, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.