

Product datasheet for **TP726940**

Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human cGMP-Dependent Protein Kinase 1/PRKG1 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Gly2-Pro686
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-HCl,150mMNaCl,pH8.0.
Note:	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.
Stability:	12 months from date of despatch
Summary:	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.



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