

## Recombinant Human PRKG1 Protein

Catalog #	Source	Reactivity	Applications
CRP2159	Human cells	Human	E, WB, SDS-PAGE, MS
<b>Description</b>	Recombinant Human PRKG1 Protein is produced by our mammalian expression system and the target gene encoding Gly2-Pro686 is expressed with a 6His tag at the C-terminus.		
<b>Form</b>	Liquid in a 0.2 µM filtered solution of 20mM Tris, 150mM NaCl, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, 20% glycerol, pH8.0.		
<b>Gene Symbol</b>	PRKG1		
<b>Alternative Names</b>	PRKG1B; PRKGR1A; PRKGR1B; cGMP-dependent protein kinase 1; cGK 1; cGK1; cGMP-dependent protein kinase I; cGKI		
<b>Entrez Gene</b>	5592 (Human)		
<b>SwissProt</b>	Q13976 (Human)		
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.		
<b>Chemical Structure</b>	<p>MGTLRDLQYA LQEKIEELRQ RDALIDELEL ELDQKDELIQ KLQNELDKYR SVIRPATQQA</p> <p>QKQSASTLQG EPRTKRQAIS AEPTAFDIQD LSHVTLPFYP KSPQSKDLIK EAILDNDFMK</p> <p>NLELSQIQEI VDCMYPVEYG KDSCIIKEGD VGSLVYVMED GKVEVTKEGV KLCTMGPGKV</p> <p>FGELAILYNC TRTATVKTLV NVKLWAIDRQ CFQTIMMRTG LIKHTEYMEF LKSVPTFQSL</p> <p>PEEILSKLAD VLEETHYENG EYIIRQGARG DTFIISKGT VNVTREDSPS EDPVFLRTLK</p> <p>KGDWFGKAL QGEDVRTANV IAAEAVTCLV IDRDSFKHLI GGLDDVSNKA YEDAEAKAKY</p> <p>EAEAAFFANL KLSDFNIIDT LGVGGFGRVE LVQLKSEESK TFAMKILKKR HIVDTRQQEH</p> <p>IRSEKQIMQG AHSDFIVRLY RTFKDSKYLY MLMEACLGGE LWTILDRGS FEDSTTRFYT</p> <p>ACVVEAFAYL HSKGIIYRDL KPENLILDHR GYAKLVDFGF AKKIGFGKKT WTFCGTPEYV</p> <p>APEIILNKGH DISADYWSLG ILMYELLTGS PPFSGPDPK TYNIIIRGID MIEFPKKIAK</p>		

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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# Product Data Sheet

NAANLIKKLC RDNPSERLGN LKNGVKDIQK HKWFEGFNWE GLRKGTLTTP IIPSVASPTD

TSNFDSFPED NDEPPPDDNS GWDIDFVDHH HHHH

**Quality Control**

Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

**Directions for Use**

Always centrifuge tubes before opening. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Storage/Stability**

Store it at -20°C to -80°C for one year.

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