

Recombinant Human PRKG1 protein, GST-tagged

Cat. No. PRKG1-5634H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKG1 protein(1-178 aa), fused with N-terminal GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-178 aa
Form	The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH 8.0). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 100 mM reduced glutathione (GSH).
AASequence	MGTLRDLQYALQEKIEELRQRDALIDELELELDQKDELIQKLQNELDKYRSVIRPATQ QAQKQSASTLQGEPRTKRQAISAEPTAFDIQDLSHVTLPFYKSPQSKDLIKEAILDN DFMKNLELSQIQEIVDCMYPVEYGKDSCIKEGDVGSLVYVMEDGKVEVTKEGVKLC TMGPG
Purity	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

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Reconstitution

Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/µl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

GENE INFORMATION

Gene Name [PRKG1 protein kinase, cGMP-dependent, type I \[Homo sapiens \]](#)

Official Symbol [PRKG1](#)

Synonyms PRKG1; protein kinase, cGMP-dependent, type I; PRKG1B, PRKGR1B; cGMP-dependent protein kinase 1; PGK; PKG; protein kinase, cGMP-dependent, regulatory, type I, beta; 1; cGK; cGK1; cGKI; cGK 1; PRKG1B; PRKGR1B; cGKI-BETA; cGKI-alpha; FLJ36117; MGC71944; DKFZp686K042;

Gene ID [5592](#)

mRNA Refseq [NM_001098512](#)

Protein Refseq [NP_001091982](#)

MIM [176894](#)

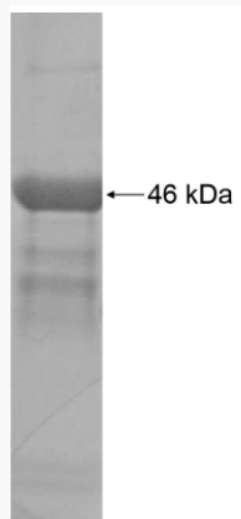
UniProt ID [Q13976](#)

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SDS-PAGE



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