



# Recombinant Rat Diacylglycerol kinase gamma (Dgkg)

<b>Product Code</b>	CSB-YP006836RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P49620
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSDGQWVCLS SEEFDQLQKY SEYSSKKIKD VLAEFNEGGS LKQYDPHKPI SYDVFKLFMR AYLEVDLPQP LSTNLFSAFS QKPRQETPDH PKEGASSSEP NVSDSNAEST AKADAACAPD TESKPIKTQV PSEELEAAAP WGEPNAPASS SDAPIVYLKD VVCYLMLMET GRPQDKLEFM FRLYDSDENE LLDQAELDQI VSQMLHVAQY LEWDPTLRLP ILKEMLQGM D YNKDGFVSLE EWVSGGMMTI PLLVLLGMDD SASKGDGRHA WTLKHFKKPT YCNFCHIMLM GVRKQGLCCI YCKYAVHQRC VSNSIPGCVK TYSKAKRSGE VMQHAWVEGN SSVKCDRCHK SIKCYQSVTA RHCVWCRMTF HRKCELSTAC DGGELKDHIL LPTSIYPVTR DRQAGKSDSG AAAGELVMQ YKIIPSPGTH PLLLVNPKS GGRQGERILQ KFHLLNPKQ VFNLKGGPT PGLNFFQDTP DFRVLACGGD GTVGWILDCI DKANFTKHP VAVLPLGTGN DLARCLRWGG GYEGGSLTKI LKEIEQSPLV MLDRWYLEVM PREEVENDQ VPYNIMNNYF SIGVDASIAH RFHVMREKHP EKFNARMKNK LWYFEFGTSE TFAATCKKLH DHIELECDGV EVDLSNIFLE GIILNIPSM YGGTNLWGET KKNRAVIRE RKSVDPKEL KCCVQDLSAQ LLEVVGLEGA MEMGQIYTG L KSAARRLAQC SSVTIRTKKL LPMQVDGEPW MQPPCMIKIT HKNQAPMMM G PPQKSSFFSL RRKSRSKD
<b>Source</b>	Yeast
<b>Target Names</b>	Dgkg
<b>Protein Names</b>	Recommended name: Diacylglycerol kinase gamma Short name= DAG kinase gamma EC= 2.7.1.107 Alternative name(s): 88 kDa diacylglycerol kinase Diglyceride kinase gamma Short name= DGK-gamma
<b>Expression Region</b>	1-788
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This gene encodes an enzyme that is a member of the type I subfamily of diacylglycerol kinases, which are involved in lipid metabolism. These enzymes generate phosphatidic acid by catalyzing the phosphorylation of diacylglycerol, a fundamental lipid second messenger that activates numerous proteins, including protein kinase C isoforms, Ras guanyl nucleotide-releasing proteins and some transient receptor potential channels. Diacylglycerol kinase gamma has been



implicated in cell cycle regulation and in the negative regulation of macrophage differentiation in leukemia cells. Multiple transcript variants encoding different isoforms have been found for this gene.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.