



# Recombinant Human Diacylglycerol kinase gamma (DGKG)

<b>Product Code</b>	CSB-YP006836HU
<b>Storage</b>	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.
<b>Uniprot No.</b>	P49619
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MGEERWVSLT PEEFDQLQKY SEYSSKKIKD ALTEFNEGGS LKQYDPHEPI SYDVFKLFMR AYLEVDLPQP LSTHLFLAFS QKPRHETSDH PTEGASNSEA NSADTNIQNA DNATKADEAC APDTESNMAE KQAPAEDQVA ATPLEPPVPR SSSESPVVY LKDVVCYLSL LETGRPQDKL EFMFRLYDSD ENGLLDQAEM DCIVNQMLHI AQYLEWDPTE LRPILKEMLQ GMDYDRDGFV SLQEWHVHGGM TTIPLLVLG MDDSGSKGDG RHAWTMKHFK KPTYCNFCHI MLMGVRKQGL CCTYCKYTVH ERCVSRNIPG CVKTYSKAKR SGEVMQHAWV EGNSSVKCDR CHKSIKCYQS VTARHCVWCR MTFHRKCELS TLCDGGELRD HILLPTSICP ITRDRPGEKS DGCVSAKGEL VMQYKIPTP GTHPLLVLVN PKSGGRQGER ILRKFHYLLN PKQVFNLNNG GPTPGLNFFR DTPDFRVLAC GGDGTGVWIL DCIDKANFAK HPPVAVLPLG TGNDLARCLR WGGGYEGGSL TKILKDIEQS PLVMLDRWHL EVIPREEVEN GDQVPYSIMN NYFSIGVDAS IAHRFHVMRE KHPEKFNSRM KNKLWYFEFG TSETFAATCK KLHDHIELEC DGVGVDLSNI FLEGIALNI PSMYGGTNLW GENKKNRAVI RESRKGVTDP KELKFCVQDL SDQLLEVGL EGAMEMGQIY TGLKSAGRRL AQCASVTIRT NKLLPMQVDG EPWMQPCCTI KITHKNQAPM MMGPPQKSSF FSLRRKSRSK D
<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): Diglyceride kinase gamma Short name= DGK-gamma
<b>Expression Region</b>	1-791
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4? 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**

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