



# Recombinant Rat Diacylglycerol kinase alpha (Dgka)

<b>Product Code</b>	CSB-EP006832RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P51556
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MAKDKGLISP EDFAQLQKYI DYSTKSVSDV LKVFEMNKYC QGDEIGYLG  EQFLKMYLEV EEVPHHLCWT LFWSFHSSQD LDEETESKAN VICLSDVYCY  FTLLEGGSPK DKLEFTFKLY DMDRNGILDS TEVEKIILQM MRVAEYLDWD  VSELRPILQE MMKEMDRDGS GCVSLAEWVR AGATTVPLL VLLGIDMTMKD  DGHHIWRPKR FSRPVYCNLC ELSIGLGKQG LSCNLCKYIV HDHCAMKAQP  CEVSTYAKSR KDIGVQPHVW VRGGCHSGRC DRCQKKIRTY HSLTGLHCVV  CHLEIHDDCL QAVGPECDG LLRDHILPPC SIYPRVLVSG QECKQKTTDV  TSLCTPEAFR IEPVSNTHPL LVFINPKSGG KQGQSVLWKF QYILNPRQVF  NLKDGPEPGL RFFKDVPQFR VLVCGGDGTW GWILETIDKA NFPIVPPVAV  LPLGTGNDLA RCLRWGRGYE GENLRKILKD IEISKVVYLD RWLLEVIPQQ  NGEKSDPVPS QIINNYFSIG VDASIAHRFH LMREKYPEKF NSRMKNKLWY  LEFATSESI FSTCKLEESV TVEICGKLLD LSDLSLEGIA VLNIPSMHGG  SNLWGDTRK HGDTCGINQA LGSVAKIITD PDILKTCVPD MSDKRLEVVG  IEGVIEMGQI YTRLKSAGHR LAKCEITFQ TTKTLPMQVD GEPWMQAPCT  IKITHKNQMP MLMGPAPSSS NFFGFWS</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Dgka
<b>Protein Names</b>	Recommended name: Diacylglycerol kinase alpha Short name= DAG kinase alpha EC= 2.7.1.107 Alternative name(s): 80 kDa diacylglycerol kinase Diglyceride kinase alpha Short name= DGK-alpha
<b>Expression Region</b>	1-727
<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 protein belongs to the eukaryotic diacylglycerol kinase family. It acts as a modulator that competes with protein kinase C for the second messenger diacylglycerol in intracellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositols and phosphorylating diacylglycerol to phosphatidic acid. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified.



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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.