



Recombinant Rat Diacylglycerol kinase alpha (Dgka)

Product Code	CSB-EP006832RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P51556
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	<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 STCKKLEESV TVEICGKLLD LSDLSLEGIA VLNIPSMHGG SNLWGDTRKRGHGDTCGINQA LGSVAKIITD PDILKTCVDP MSDKRLEVVG IEGVIEMGQI YTRLKSAGHR LAKCEITFQ TTKTLPMQVD GEPWMQAPCT IKITHKNQMP MLMGPAPSSS NFFGFWS</p>
Source	E.coli
Target Names	Dgka
Protein Names	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
Expression Region	1-727
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.



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.

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.