



Recombinant Mouse Glycerol kinase (Gk)

Product Code	CSB-EP717548MO-B
Abbreviation	Gk
Storage	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.
Uniprot No.	Q64516
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	MAAAKKAVLG PLVGAVDQGT SSTRFLVFNS KTAELLSHHQ VEIKQEFPRE GWVEQDPKEI LQSVYECIEK TCEKLGQLNI DISNIKAIGV SNQRETTVVW DKVTGEPLYN AVVWLDLRTQ STVENLSKRI PGNNNFVKSK TGLPLSTYFS AVKLRWLLDN VKKVQEAVEE NRALFGTIDS WLIWSLTGGI HGGVHCTDVT NASRTMLFNI HSLEWDKELC EFFGIPMEIL PNVRSSSEIY GLMKISHSLK AGALEGVPIS GCLGDQSAAL VGQMCFQDGQ AKNTYGTGCF LLCNTGHKCV FSEHGLLTTV AYKLGRDKPV YVALEGSVAI AGAVIRWLRD NLGIKSSEE IEKLAKEVGT SYGCYFVPAF SGLYAPYWEP SARGIICGLT QFTNKCHIAF AALEAVCFQT REILDAMNRD CGIPLSHLQV DGGMTSNKIL MQLQADILYI PVVKPSPMET TALGAAMAAG AAEGVGVWSL EPEDLSAVTM ERFEPQINAE ESEIRYSTWK KAVMKSIGWV TTQSPESGDP SIFCSLPLGF FIVSSMVMLI GARYISGIP
Source	E.coli
Target Names	Gk
Protein Names	Recommended name: Glycerol kinase Short name= GK Short name= Glycerokinase EC= 2.7.1.30 Alternative name(s): ATP:glycerol 3- phosphotransferase
Expression Region	1-559
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	The product of this gene belongs to the FGGY kinase family of proteins and encodes glycerol kinase. Glycerol kinase is a key enzyme in the regulation of glycerol uptake and metabolism. It catalyzes the phosphorylation of glycerol by ATP, yielding ADP and glycerol-3-phosphate. Defects in this gene are the cause of glycerol kinase deficiency (GKD). Alternatively spliced transcript variants encoding different isoforms 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.