



Recombinant Rat Calcium/calmodulin-dependent protein kinase kinase 2 (Camkk2)

Product Code	CSB-EP004473RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O88831
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	SSCVSSQPT SDRAAPQDEL GSGGVSRESQ KPCEALRGLS SLSIHLGMES FIVVTECEPG RGVDSLARD QPLEADGQEL PLDASEPESR SLLSGGKMSL QERSQGGPAS SSSLDMNGRC ICPSLSYSPA SSPQSSPRMP RRPTVESHHV SITGLQDCVQ LNQYTLKDEI GKGSYGVVKL AYNENDNTYY AMKVLSKKKL IRQAGFRRP PPRGTRPAPG GCIQPRGPIE QVYQEIAILK KLDHPNVVKL VEVLDDPNED HLYMVFELVN QGPVMEVPTL KPLSEDQARF YFQDLIKGIE YLHYQKIIHR DIKPSNLLVG EDGHIKIADF GVSNEFKGSD ALLSNTVGTP AFMAPESLSE TRKIFSGKAL DVWAMGVTLY CFVFGQCPFM DERIMCLHSK IKSQALEFPD QPDIAEDLKD LITRMLDKNP ESRIVVPEIK LHPWVTRHGA EPLPSEDENC TLVEVTEEEV ENSVKHIPSL ATVILVKTMI RKRSFGNPF GSRREERSLS APGNLLTKKP TREWEPLSEP KEARQRRQPP GPRASPCGGG GSALVKGGPC VESCGAPAPG SPPRTPPQQP EEAMEPE
Source	E.coli
Target Names	Camkk2
Protein Names	Recommended name: Calcium/calmodulin-dependent protein kinase kinase 2 Short name= CaM-KK 2 Short name= CaM-kinase kinase 2 Short name= CaMKK 2 EC= 2.7.11.17 Alternative name(s): Calcium/calmodulin-dependent protein kin
Expression Region	2-587
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 of Mature Protein
Target Details	The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. Seven transcript variants encoding six distinct isoforms have been identified for this gene. Additional splice variants have been described but their full-length nature has not been determined. The identified isoforms exhibit a distinct ability to undergo autophosphorylation and to phosphorylate the downstream kinases.



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.