



# Recombinant Rat Calcium/calmodulin-dependent protein kinase type IV (Camk4)

<b>Product Code</b>	CSB-EP004471RA-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P13234
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MLKVTVPSCP SSPCSSVTSS TENLVPDYWI DGSKRDPLSD FFEVESELGR GATSIVYRCK QKGTQKPYAL KVLKKTVDKK IVRTEIGVLL RLSHPNIIKL KEIFETPTEI SLVLELVTGG ELFDRIVEKG YYSERDAADA VKQILEAVAY LHENGIVHRD LKPENLLYAT PAPDAPLKIA DFGLSKIVEH QVLMKTVCCT PGYCAPEILR GCAYGPEVDM WSVGIIITYIL LCGFEPFYDE RGDQFMFRR LNCEYYFISP WWDEVSLNAK DLVKKLIVLD PKKRLTTFQA LQHPWVTGKA ANFVHMDTAQ KKLQEFNARR KLKAAVKAVV ASSRLGSASS SHTNIQESNK ASSEAQPAQD GKDKTDPLEN KMQAGDHEAA KAAADETMKL QSEVEEEEEG VKEEEEEEEEE EEETSRMVPQ EPEDRLETDD QEMKRNSEET LKSVEEEMDP KAEEEAAAVG LGVPPQQDAI LPEY
<b>Source</b>	E.coli
<b>Target Names</b>	Camk4
<b>Protein Names</b>	Recommended name: Calcium/calmodulin-dependent protein kinase type IV Short name= CaMK IV EC= 2.7.11.17 Alternative name(s): CaM kinase-GR Calspermin
<b>Expression Region</b>	1-474
<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>	The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells.
<b>Reconstitution</b>	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.