



# Recombinant Rat Protein kinase C epsilon type (Prkce)

<b>Product Code</b>	CSB-EP018704RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P09216
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MVVFNGLLKI KICEAVSLKP TAWSLRHAVG PRPQTFLLDP YIALNVDDSR IGQTATKQKT NSPAWHDEFV TDVCNGRKIE LAVFHDAPIG YDDFVANCTI QFEELLQNGS RHFEDWIDLE PEGKVYVIID LSGSSGEAPK DNEERVFRER MRPRKRQGAV RRRVHQVNGH KFMATYLRQP TYCSHCRDFI WGVIGKQGYQ CQVCTCVVHK RCHELIITKC AGLKKQETPD EVGSQRFSVN MPHKFGIHNY KVPTFCDHCG SLLWGLLRQG LQCKVCKMNV HRRCETNVAP NCGVDARGIA KVLADLGVTP DKITNSGQRR KKLAAGAESP QPASGNPSE DDRSKSAPTS PCDQELKELE NNIRKALSFD NRGEEHRASS STDGQLASPG ENGEVRQGQA KRLGLDEFNF IKVLGKGSFG KVMLAELK GK DEVYAVKVLK KDVLQDDDDV DCTMTEKRIL ALARKHPYLT QLYCCFQTKD RLFFVMEYVN GGDLMFQIQR SRKFDEPRSG FYAAEVTSAL MFLHQHGVIIY RDLKLDNILL DAEGHSLKAD FGMCKEGILN GVTTTTFCGT PDYIAPEILQ ELEYGPSVDW WALGVLMYEM MAGQPPFEAD NEDDLFESIL HDDVLYPVWL SKEAVSILKA FMTKNPHKRL GCVAAQNGED AIKQHPFFKE IDWVLEQKK MKPPFKPRIK TKRDVNNFDQ DFTREEPILT LVDEAIVKQI NQEEFKGFSY FGEDLMP
<b>Source</b>	E.coli
<b>Target Names</b>	Prkce
<b>Protein Names</b>	Recommended name: Protein kinase C epsilon type EC= 2.7.11.13 Alternative name(s): nPKC-epsilon
<b>Expression Region</b>	1-737
<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>	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. This protein is one of the PKC family members. This kinase has been shown to be involved in many



different cellular functions, such as neuron channel activation, apoptosis, cardioprotection from ischemia, heat shock response, as well as insulin exocytosis. Knockout studies in mice suggest that this kinase is important for lipopolysaccharide (LPS)-mediated signaling in activated macrophages and may also play a role in controlling anxiety-like behavior.

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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.