



# Recombinant Rat Protein kinase C zeta type (Prkcz)

<b>Product Code</b>	CSB-EP018710RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P09217
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MPSRTDPKMD RSGGRVRLKA HYGGDILITS VDPTTTFQDL CEEVRDMCGL HQQHPLTLKW VDSEGDPC TV SSQMELEEAF RLACQGRDEV LIIHVFP SIP EQPGMPCPGE DKSIIYRRGAR RWRKLYRANG HLFQAKRFNR RAYCGQC SER IWGLARQGYR CINCKLLVHK RCHVLVPLTC RRHMDSVMPS QEPPVDDKND GVDLPSEETD GIAYISSSRK HDNIKDDSED LKPVIDGV DG IKISQGLGLQ DFDLIRVIGR GSYAKVLLVR LKKN DQIYAM KVVKKELVHD DEDIDWVQTE KHVFEQASSN PFLVGLHSCF QTTSRLFLVI EYVNGGDL MF HMQRQRKLPE EHARFYAAEI CIALNFLHER GIIYRDLKLD NVLLDADGHI KLTDYGMCKE GLGPGD TTST FCGTPNYIAP EILRGEEYGF SVDWWALGVL MFEMMAGRSP FDIITDNPDM NTEDYLFQVI LEKPIRIPRF LSVKASHVLK GFLNKDPKER LGCRPQTGFS DIKSHAFFRS IDWDLLEKKQ TLPPFQPQIT DDYGLDNFDT QFTSEPVQLT PDEEDVIKRI DQSEFEGFEY INPLLLSAEE SV
<b>Source</b>	E.coli
<b>Target Names</b>	Prkcz
<b>Protein Names</b>	Recommended name: Protein kinase C zeta type EC= 2.7.11.13 Alternative name(s): nPKC-zeta
<b>Expression Region</b>	1-592
<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) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Alternative splicing results in multiple transcript variants encoding different isoforms.



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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.