

Recombinant Full Length Human PRKCZ, His-tagged

Cat. No. PRKCZ-4811H **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Human Protein Kinase C Zeta type/PRKCZ is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Val592) of Human PRKCZ fused with a polyhistidine tag at the C-terminus. |
| Species | Human |
| Source | HEK293 |
| ProteinLength | 1-592 a.a. |
| Description | 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. |
| AA Sequence | MPSRTGPKMEGSGGRVRLKAHYGGDIFITSVDAATTFEELCEEVRDMCRLHQQHPL TLKW VDSE GDPCTVSSQMELEEAFLRLARQCRDEGLIIHVFPSTPEQPGLPCPGED |

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KSIYRRGAR RWRKLYRA NGHLEQAKRFNRRAYCGQCSEIWRGLARQGYRCINCK
 LLVHKRCHGLVPLTC RKHMDSVMPSQE PPVDDKNEDADLPSEETDGIAYISSSRKH
 DSIKDDSEDLKPVIDGMDGIKISQGLGLQDFDLIRV IGRGSYAKVLLVRLKKNQIYA
 MKVVKKELVHDEDEDIDWVQTE KHVFEQASSNPFLVGLHSCFQ TTSRLFLVIEYVNG
 GDLMFHMQRQRKLPEEHARFYAAEI CIALNFLHERGIIYRDLKLDNVL LDADGHIKLT
 DYGMCKEGLGPGDTTSTFCGTPNYIAP EILRGEEYGFSDWWALGVLMFEMMAG
 RSPFDIITDNPDMNTEDYLFQVILEKPIRIPRF LSVKASHVLKGFLNKDPKERLGCRP
 QTGFSD IKSHAFFRSIDWDLLEKKQALPPFQPQIT DDYGLDNFDTQFTSEPVQLTPD
 DEDAIKRIDQSE FEGFEYINPLLLSTEESV

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name [PRKCZ protein kinase C, zeta \[Homo sapiens \(human\) \]](#)

Official Symbol PRKCZ

Synonyms PRKCZ; protein kinase C, zeta; protein kinase C zeta type; PKC2; nPKC-zeta; PKC-ZETA; NP_001028753.1; EC 2.7.11.13; NP_001028754.1; NP_001229803.1; NP_002735.3

Gene ID [5590](#)

mRNA Refseq [NM_001033581](#)

Protein Refseq [NP_001028753](#)

MIM [176982](#)

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|----------------------------|--|
| UniProt ID | Q05513 |
| Chromosome Location | 1p36.33-p36.2 |
| Pathway | AGE/RAGE pathway; CDC42 signaling events; CXCR4-mediated signaling events |
| Function | 14-3-3 protein binding; ATP binding; insulin receptor substrate binding; metal ion binding |

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