

Recombinant Human PRKCZ Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PRKCZ-5217H Lot. No. (See product label)

SPECIFICATION

Product Overview	PRKCZ MS Standard C13 and N15-labeled recombinant protein (NP_001028753) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	67.7 kDa
AA Sequence	MPSRTGPKMEGSGGRVRLKAHYGGDIFITSVDAATTFEELCEEVRDMCRLHQQHPL TLKWVDSEGDPTVSSQMELEEAFLRLARQCRDEGLIIVFPSTPEQPGLPCPGEDK SIYRRGARRWRKLYRANGHLFQAKRFNRRAYCGQCSEIWIWGLARQGYRCINCKLL

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VHKRCHGLVPLTCRKHMDVMPSEQEPPVDDKNEDADLPSEETDGIAYISSSRKHDSI
 KDDSEDLKPVIDGMDGIKISQGLGLQDFDLIRVIGRGSYAKVLLVRLKKNQDIYAMKV
 VKKELVHDDDEDIDWVQTEKHVFEQASSNPFLVGLHSCFQTTSRFLVIEYVNGGDLM
 FHMQRQRKLPEEHARFYAAEICIALNFLHERGIIYRDLKLDNVLLDADGHIKLTDYGM
 CKEGLGPGDTTSTFCGTPNYIAPEILRGEEYGFSDVWWALGVLMFEMMAGRSPFDII
 TDNPDMENTEDYLFQVILEKPIRIPRFLSVKASHVLKGFLNKDPKERLGCPRQTGFSDI
 KSHAFFRSIDWDLLEKKQALPPFQPQITDDYGLDNFDTQFTSEPVQLTPDDEDAIKRI
 DQSEFEGFEYINPLLLSTEEVSVPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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;

Gene ID 5590

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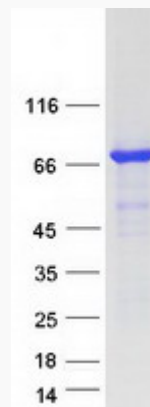
mRNA Refseq [NM_001033581](#)

Protein Refseq [NP_001028753](#)

MIM [176982](#)

UniProt ID [Q05513](#)

SDS-PAGE



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