

Product datasheet for **TP300438**

PKC zeta (PRKCZ) (NM_001033581) Human Recombinant Protein

Product data:

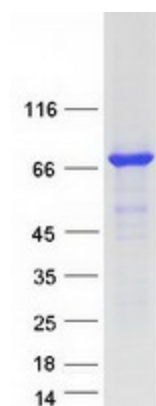
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase C, zeta (PRKCZ), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200438 representing NM_001033581 Red =Cloning site Green =Tags(s)
	MPSRTGPKMEGSGGRVRLKAHYGGDIFITSVDAATTFEELCEEVRDMCRLHQQHPLTLKWVDSEGDPCV SSQMELEEAFLARQCRDEGLIIHVFPSTPEQPGLPCPGEDKSIYRRGARRWRKLYRANGHLFQAKRFNR RAYCGQCSERIWGLARQGYRCINCKLLVHKRCHGLVPLTCRKHMD SVMPSQEPVDDKNEDADLPSEETD GIAYISSSRKHDSIKDDSEDLPVIDGMDGIKISQGLGLQDFDLIRVIGRGSYAKVLLVRLKKNQDIYAM KVVKKELVHDEDEDIDWVQTEKHVFEQASSNPFLVGLHSCFQTTSRLFLVIEYVNGGDLMFHMQRQRKLP EHARFYAAEICIALNFLHERGIIYRDLKLDNVLLDADGHIKLDYGMCKEGLGPGDTTSTFCGTPNYIAP EILRGEEYGFSVDWWALGVLMFEMMAGRSPFDIITDNPDMNTEDYLFQVILEKPIRIPRFLSVKASHVLK GFLNKDPKERLGCPRQTFGSDIKSHAFRRSIDWDLLEKKQALPPFPQITDDYGLDNFDTQFTSEPVQLT PDEDAIKRIDQSEFEGFEYINPLLLSTEESV
	SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	46.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001028753
Locus ID:	5590
UniProt ID:	Q05513
RefSeq Size:	2147
Cytogenetics:	1p36.33
RefSeq ORF:	1776
Synonyms:	PKC-ZETA; PKC2
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Chemokine signaling pathway, Endocytosis, Insulin signaling pathway, Tight junction, Type II diabetes mellitus

Product images:



Coomassie blue staining of purified PRKCZ protein (Cat# TP300438). The protein was produced from HEK293T cells transfected with PRKCZ cDNA clone (Cat# [RC200438]) using MegaTran 2.0 (Cat# [TT210002]).