

## Product datasheet for **TP302472M**

### PKC zeta (PRKCZ) (NM\_002744) Human Recombinant Protein

#### Product data:

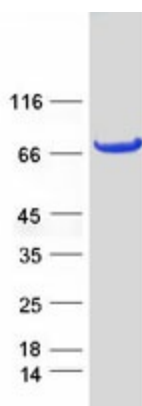
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase C, zeta (PRKCZ), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202472 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MPSRTGPKMEGSGGRVRLKAHYGGDIFITSVDAATTFEELCEEVRDMCRLHQHPLTLKWVDSEGDPCV SSQMELEEAFLARQCRDEGLIIHVFPSTPEQPGLPCPGEDKSIYRRGARRWRKLYRANGHLFQAKRFNR RAYCGQCSERIWGLARQGYRCINCKLLVHKRCHGLVPLTCRKHMDSVMPSQEPVDDKNEDADLPSEETD GIAYISSSRKHDSIKDDSEDLPVIDGMDGIKISQGLGLQDFDLIRVIGRGSYAKVLLVRLKKNQDIYAM KVVKKELVHDDDEDIDWVQTEKHVFEQASSNPFLVGLHSCFQTTSRLFLVIEYVNGGDLMFHMQRQRKLP EHARFYAAEICIALNFLHERGIIYRDLKLDNVLLDADGHIKLDYGMCKEGLGPGDTTSTFCGTPNYIAP EILRGEEYGFSVDWWALGVLMFEMMAGRSPFDIITDNPDMNTEDYLFQVILEKPIRIPRFLSVKASHVLK GFLNKDPKERLGCPRPQTGFSDIKSHAFFRSIDWDLLEKKQALPPFPQITDDYGLDNFDTQFTSEPVQLT PDDEDAIKRIDQSEFEGFEYINPLLLSTEESV</p> <p><b>SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	67.5 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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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_002735</a>
<b>Locus ID:</b>	5590
<b>UniProt ID:</b>	<a href="#">Q05513</a>
<b>RefSeq Size:</b>	2359
<b>Cytogenetics:</b>	1p36.33
<b>RefSeq ORF:</b>	1776
<b>Synonyms:</b>	PKC-ZETA; PKC2
<b>Summary:</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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Chemokine signaling pathway, Endocytosis, Insulin signaling pathway, Tight junction, Type II diabetes mellitus

### Product images:



Coomassie blue staining of purified PRKCZ protein (Cat# [TP302472]). The protein was produced from HEK293T cells transfected with PRKCZ cDNA clone (Cat# [RC202472]) using MegaTran 2.0 (Cat# [TT210002]).