

## Product datasheet for PH300438

### PKC zeta (PRKCZ) (NM\_001033581) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PRKCZ MS Standard C13 and N15-labeled recombinant protein (NP_001028753)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200438
Predicted MW:	67.7 kDa
Protein Sequence:	>RC200438 representing NM_001033581 Red=Cloning site Green=Tags(s)

MPSRTGPKMEGSGGRVRLKAHYGGDIFITSVDAATTFEELCEEVRDMCRLHQQHPLTLKQVWVSEGDPTV  
SSQMELEEAFLARQCRDEGLIIHVFPSTPEQGLPCPGEDKSIYRRGARRWRKLYRANGHLFQAKRFNR  
RAYCGQCSERIWGLARQGYRCINCKLLVHKRCHGLVPLTCRKHMSVMPSEQEPPVDDKNEDADLPSEETD  
GIAYISSSRKHDSIKDDEDLKPVIDGMDGIKISQGLGLQDFDLIRVIGRGSYAKVLLVRLKKNQDIYAM  
KVVKKELVHDDDEDWVQTEKHVFEQASSNPFLVGLHSCFQTTSRFLVIEYVNGGDLMFHMQRQRKLPE  
EHARFYAAEICIALNFLHERGIIYRDLKLDNVLLDADGHIKLDYGMCKEGLGPGDSTFCGTPNYIAP  
EILRGEEYGFSDWWALGVLFMEMMAGRSPFDIITDNPDMNTEDYLFQVILEKPIRIPRFLSVKASHVLK  
GFLNKDPKERLGCPRQTFSDIKSHAFRSDWDLLEKKQALPPFQPQITDDYGLDNFDTQFTSEPVQLT  
PDEDAIKRIDQSEFEGFEYINPLLLSTEEVS

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001028753</a>
RefSeq Size:	2147
RefSeq ORF:	1776



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**Synonyms:** PKC-ZETA; PKC2

**Locus ID:** 5590

**UniProt ID:** [Q05513](#)

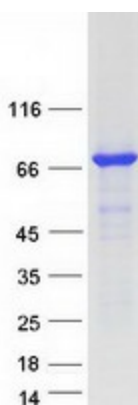
**Cytogenetics:** 1p36.33

**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]).