

Product: PKC zeta, active
Catalog #: 02-2051
Amount: 5 µg

DESCRIPTION: PKC zeta is an atypical isoform of the PKC family. PKC zeta is found in both particulate and soluble fractions and cannot be activated by phorbol ester. Overexpression of PKC zeta and subsequent phorbol ester treatment abolished phorbol ester-induced reduction in cell proliferation (1). Overexpression of PKC zeta also potentiates phorbol ester-induced mitogen-activated protein (MAP) kinase activation in a PKC-dependent manner. PKC zeta is an upstream modulator of p70S6K, an important regulator of cell proliferation (2)
The gene accession number is [NM 002744](#)
Gene Aliases: PRKCZ; PRKCZ

SOURCE: Sf9
Recombinant full-length human PKC zeta was expressed by baculovirus in insect cells using a N-terminal GST tag

MOLECULAR WEIGHT: 93 kDa

PURITY: > 90% (by densitometry)

FORM: Purified, in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

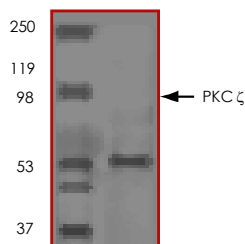
CONCENTRATION: 0.1 mg/ml

SPECIFIC ACTIVITY: 114 nmol/mim/mg

STORAGE: -70°C (aliquot). AVOID repeated Freeze/thaw cycles

REFERENCE:

1. Kim, SJ. Et al: Phorbol ester effects in atypical protein kinase C zeta overexpressing NIH3T3 cells: possible evidence for crosstalk between protein kinase C isoforms. *Biochem Biophys Res Commun.* 1997 Aug 18;237(2):336-9
2. Romanelli, A. et al: p70 S6 kinase is regulated by protein kinase Czeta and participates in a phosphoinositide 3-kinase-regulated signalling complex. *Mol Cell Biol.* 1999 Apr;19(4):2921-8



This product is sold for laboratory research use or further manufacturing only and should not be used for human therapeutic or diagnostic applications. The information presented is believed to be accurate; however, said information and products are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. Nothing disclosed herein is to be construed as a recommendation to use our products in violation of any patents. Under no circumstances shall ARP American Research Products, Inc. be liable for damages, whether consequential, compensatory, incidental or special, strict liability or negligence, breach of warranty or any other theory arising out of the use of the products available from ARP American Research Products, Inc. Nothing contained herein warrants that the use of the products will not infringe on the claims of any patents covering the product itself or the use thereof in combination with other products or in the operation of any process.