

**Product:** PKC  $\mu$ , active  
**Catalog #:** 02-2049  
**Amount:** 5  $\mu$ g

**DESCRIPTION:** Protein kinase C  $\mu$  (PKC $\mu$ ) is a member of the protein kinase C (PKC) family that differs from the other PKC isoenzymes in structural and enzymatic properties. PKC  $\mu$  is ubiquitous in nature with the highest expression in the thymus, lung and peripheral blood mononuclear cells (1). PKC  $\mu$  forms a complex in vivo with a phosphatidylinositol 4-kinase and a phosphatidylinositol-4-phosphate 5-kinase. A region of PKC  $\mu$  between the amino-terminal transmembrane domain and the pleckstrin homology domain is shown to be involved in the association with the lipid kinases (2). The gene accession number is [X75756](#)  
Gene Aliases: PRKCI; DXS1179E

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

**MOLECULAR WEIGHT:** 131 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

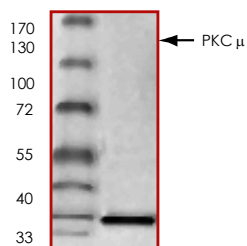
**CONCENTRATION:** 0.1 mg/ml

**SPECIFIC ACTIVITY:** 680 nmol/mim/mg

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

**REFERENCE:**

1. Rennecke, J. et al: Immunological demonstration of protein kinase C  $\mu$  in murine tissues and various cell lines. Eur J Biochem. 1996 Dec 1;242(2):428-32
2. Nishikawa, K. et al: Association of protein kinase C $\mu$  with type II phosphatidylinositol 4-kinase and type phosphatidylinositol-4-phosphate 5-kinase. J Biol Chem. 1998 Sep 4;273(36):23126-33



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