Product: **PKC mu, active**
Catalog #: **02-2049**
Amount: **5 µg**

DESCRIPTION: Protein kinase C mu (PKCµ) 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 a 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 PKCµ 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

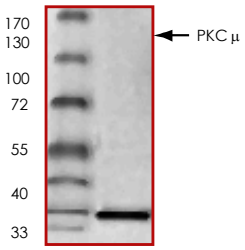
CONCENTRATION: 0.1 mg/ml

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 Cmu 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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