Creative Enzymes®

Native Rat Protein Kinase C

Cat. No. NATE-0573

Lot. No. (See product label)

Introduction

Description	Protein kinase C is a family of protein kinase enzymes that are involved in controlling the function of other proteins through the phosphorylation of hydroxyl groups of serine and threonine amino acid residues on these proteins. PKC enzymes in turn are activated by signals such as increases in the concentration of diacylglycerol (DAG) or calcium ions (Ca2+). Hence PKC enzymes play important roles in several signal transduction cascades.
Synonyms	EC 2.7.11.13; 141436-78-4; Protein kinase C; PKC; calcium-dependent protein kinase C; calcium-independent protein kinase C; calcium/phospholipid dependent protein kinase; cPKCα; cPKCβ; cPKCγ; nPKCδ; nPKCε; nPKCη; nPKCθ; PKCα; PKCβ; PKCγ; PKCδ; PKCε; PKCζ; Pkc1p; protein kinase Cε; STK24

Product Information

Species	Rat
Source	Rat brain
Form	Type I, buffered aqueous glycerol solution; Type II, lyophilized powder.
EC Number	EC 2.7.1.37
CAS No.	141436-78-4
Molecular Weight	mol wt 82 kDa by SDS-PAGE
Purity	> 90% (SDS-PAGE)
Activity	Type I, 50-200 units/mL
Buffer	Solution in 50% glycerol containing 20 mM Tris, pH 7.5, 0.5 mM EDTA, 0.5 mM EGTA, 5 mM DTT, 100 mM NaCl, 0.02% Tween 20, and 1 μg/ml leupeptin.
Unit Definition	One unit will transfer 1 nmol of phosphate per min from ATP to histone H1 at pH 7.4 at 30°C.

Storage and Shipping Information

Stability	−70°C